

Heller Ehrman White & McAuliffe, LLP  
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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases  
Serial No. To be assigned Applicants: Becker *et al.*  
Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

1 GATCCCTCCCGGTTTCATGGCAGCCAGGGTCCAGGGCATCCAGGAATGCTGGTGGGTAGCTGCACAGGCCAGGGCAGGGAGGTGGCTGGCTTCAC  
101 CTAACAGGCCATTGCTGGCCCTGACCCCTACCTAGGAAGCTGGGACAATGGCAAGGCCCTCCCTCTCTGTGCTGTGCTGGCTGGCCAGCCCCT  
201 ACAGCCCCCTGGGCAAGAGCACCCAGGGCTGGCCAGGGCTGGCCAGGGCAGTAAATGAATGAGGGCACAGGGTGGGAGCTGGCCAGCCCCT  
301 CCAGGGCATGGAGGGCACGGGGAGGGCTGGCTGGAGGGCACAGGGCAGGGAGGGCTGGCTGGCCAGGGAGGGCTGGCTGGCCAGCCCCT  
401 ACCCTCCCTCCCTCCCTCCCTCCCTGGGGAGGGCTGGCTGGCCAGGGAGGGCTGGCTGGCCAGGGAGGGCTGGCTGGCCAGGGAGGGCTGA

1e.5'UTR-19  
(rs1800373)  
rs1800714 A Exon\_1 C

501 GGATCGGGGACAGCCGCTGCGGCAGCACTCGAGCCAGCTCAAGCCCGAGCTCGCAGGGAGATCCAGCTCCCTGCCTGCAGCAGCAACCCCTGCA  
1e.CDS+9 T 1e.CDS+37 A Exon\_1

601 CACCCACCTGATGTCTCAAGAAGGGCTTCTCCATGCCAAGGAGGGCTGTTGGGTGCGGTGGAAAAGACCAAGCAGGGGTGACGGAAAGCAGCTGA  
start codon  
Exon\_1

701 GAAGACCAAGGAGGGGGTCATGTAATGTTGGTAAGTGGGCAATGGCAGGGTGGGACAGTGTTGGTGGCCAAGGGTGGAGTGCCAGTTACCTTCGCCAGACC  
801 TTACTCCCCAGCCCAGGGAGGCTTTGGAGGGGGGAGGGCCATGGCTATCAAGGTGGGCTCTCAGACCCCTGGAGCACCAATGCCCCTGTGCAACA

1i.D+186 G 1i.D+258 A  
901 CCTATGTTGTTGTTCTTTGGCCTCCTGGGGCCCTCTGGGTTCAGAGAGCCAGACAGGGCTGGCTACCTGTGACCCACACACACATTCCCCAAG  
1001 CATACCCAGCTCCCTGAGGCTTGAGCCCTGAAGCCATGAGCAGCTGTGCTCAGGTGGCCCCACCTCTCCACAGGGAGGGCTACAGCCAGGTCA  
1101 CGGATCCCCCTCCCTCCCCAGAGAAAGGGCAGGTGGGGATGAAACCTAGGCTCAGTGTCTCCCTCCCGCATCTCTCTGGCAGCTCAGAGGAG  
1201 GAAGGGGAGGTCAAGCCAATGACTAGCTCTGGCCATCTGGCTGTGCTCTGGCCATCTGGCTGTGCTCTGGCCATCTGGCTGTGCTCTGGCTCA  
1301 GCCAGTGTCTCTACCTCAGGCCCTGCTCTCTTGGCTCCCCACATTCTGTCTCTGGCTCTCCCATCATACTAACATCTTCCAGACACAGCAGGAAGAGGC  
1401 CTCTGAAGGGGCCGCCGGCCCCAGACACCACCTTACCCCCCACGGACCCACAGTTGTCCAGCTGTCTGTGTTGTCTGACCCGCCCCAAC

Exon\_2

1501 ACCTCGAGGGAGGTCTGGGCTGACAGCTCATTCCTCCAGGAGCCAAAGCCAAGGAGAAATGTTGACAGAGCGTGACCTCAGGTGAGAAGCCCCAGG  
1601 GCCAGGGGACACATGGGGTAGGACCCCTGGGCTCTGCATCCTAGTGTGGGCTCAAACCTAGAGTCCTGCCTAACCCAACTGGGTCCTAACCCAACTGGGTCCTAAC

21.A-189  
(rs760112)  
G

1701 CCTACAGACCCCTGAGACATAAGGCTAAACTAGGGTGGGCTCTCTAACCCACCCAGCATCAGAGGTGCCCTGGACTCAGAGGAGCAGGGAGGG  
1801 TCCCAGCAGGGCCAGGGCTCTGAGCTCTGGGAAGGGCTGGAGGCTGACTCAGCAGGGCTGCCATTGGGCTGGGCTGGGAGGCCAGGTG

3e.CDS+195  
(rs760113) 3e.CDS+202  
Exon\_3 C A

1901 TCCTCCCCATAGTGGCCGAGAAGACCAAGGAGCAGGCCAACGCCGTGAGCAGGCTGTGGTGACCGAGCTCAACACTGTGGCCACCAAGACCGTGGAGGAG  
Exon\_3

2001 GCGGAGAACATCAGCCATCTGGGTGGTGGCCAGGTGAGGCCAGCCCTCAGACCTGGCCAGTCCCTCTCTGGGCCAGAACAGCTGTGGCG  
2101 AGCCGGCATCCTACCTACCTACACCCACAGGGGGCTGGCTGGCTTACCTTCAGTACCCACTGAGCCGGGGCATGGGTGGGTCTCA  
2201 TGCTTGCTGTTGACCTGCATTGGGTCTGGAAATCACCAACCCCTTCGGGAGACTGGGAGGCCATCTCATAGACAAGGAAGTGAGGCTCAA  
2301 CCACATCTCCGGACGGCTCTGAGCAGTAAAGGAGACACCCATTATAAGTGAAAACAGGATCCACACGGTACAGGGCAGCTCCGGCAGTGGTCA  
2401 CCAGGGGGGGGGCTGAGTAGCAGGCCGCCAGGGCTAGCCTCCCTGGGCTGGGGAGGCCAGCTGGCTGGGAGGCCAGGGAG

3i.D+495 G

2501 TAGCGTCCCCATAGTGTAAAGAACAGTGTGCTCTGACCCATCCCTGCGACCTCCCTGTGCTGTGACGTGTGACTGAGCATGTGGGTG  
2601 CAATTGTGAGAAATGTGTTGGGTGACATGCGTGTGATGTACACATGCGTGTGCGGCCAAATAGCAGACAGCACAGGGACAGTGGGGCGACCCAGGGAC  
2701 GGGTGTGGCTGGGTGAGCTTCCACGACCTGTGACACAGCAACAGCTCTGCTTACCGATGTACGCTTATTAGTCTATTAAATAGACACAAATCCATG  
2801 AGACGGTGTGAGAAACTAAGGCCAGAGAGATAATGAGGACACCCATTATAAGTGAAAATCCCTGAGCAGGCTGTACTCTGAG  
2901 AGACCCCTGTGCCAGTGTAGTGGCTGGGCTAGGATTTCTACCTGGGGTGGGGGGGGAGCAGTGTGACGCTCTCCCTACCTGCTCCAGGCCCT  
3001 AGGTGGTGGAGTGTGAGGCTGTGAGCACTGAGAATCCCTGCGTAGGAGTGGGTGGGAGAAGGGTGGGGCTGCCCTACTCTCTTGCTCTGGGCGA

FIG. 1A

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Neurodegenerative Diseases**

FIG. 1B

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## Title: Genes and Polymorphisms on Chromosome 10 Associated with Alzheimer's Disease and Other Neurodegenerative Diseases

**Neurodegenerative Diseases**

us-945

2401 AAAGCATCAACTTGTAAAGGACCCCTCCTACTGAACTTAAAGCAACTACTGGACTAAGGACACCGTTTGGCTGCAGTCAGTCAGTC  
2501 AATCGAAAACCTAAAGTACTTAACTGGCAAGTCACCATCTTAAAGCTCCATAAGGATTAGGAAAGTTAGATTCTAA  
2601 CAACTTAAAGTGTCTGGTGGCAAGGCCCATAAAGGCCTAACAGGCTACGGGAGAAATTCTTGTAAAGTAAACCTGAAGGCCACTGCA  
2701 ATTCCTAGTAGCGACTAACAGAGTACTAGTTCTACTCTGGATTGTAAAGCCTTGTCTGGCAGGCCGCTTCACTTCGACATTCTTAAGA  
2801 GAGCTGCTAACTTCCCAGGATGGAAACGTCCTGGCTCTGGCTCTATCGCTGACCCCTGCGCTGAATTCCCCCACGCCACTGAGCCT  
2901 TGTCTCCAGCGCATCTGTGCTTCTGGGTCACGTCCTTCCACGGCCTAGAGGGAGGCCGCGGCCGCCGCCGAGTCATTCTAGCTGAGG  
3001 CGCCCGGACACCAACCTTGTAAACCTGGCAGGGTCCGGCACGCTAGTCAGTGGGGTCTGCCTCAAAGAAATAGCCGGCTGTGCTTCATCGGATT  
3101 ATAGCGGCCCTCCGCCCTCAACAGTCAGCACACAGTCGCCACCTCAACAGTCGCCGGCTGGGATCTAGCTGGGACCCCTCCGCCCTGGGAAAGTCT

us-122

2

3201 GGGTGCTGGCTCTAAAGGCCCGGCAACCCCTGTCCCTCAGTCCGCCTGCTCAGGCCCTGGCTGTCAGGGCTCTTCACCGTCTCCGCTGCGTCC  
3301 TGGCCCCATCCGGCTCCAGGAAAACCCGGAGCAGUTACCTCTCCGAGCTCCGGAGACCGCGCGGCGCGGGCTAGAGCATGCGCAGTGCAGGG

1e.5' UTR-51

T

exon 1

3401 CCGGCTCGAAGCGCAAGCAGGAAGCGTTGCGGTGATCCCGCGACTGCGCTGGCTATCGGTACCGCTAGCGTGGCTCTGCACCCCCGCACTGCCCA  
start codon

3501 GCACCTTCCGCTCAGTCGGCCCCCTGCCGCCCTGGAGCGCTGTGGGTAAGCGGAATGGAGCGCCGGGCCCTCGGCCCGGGCTGGGCCCGTGGGTCA  
 3601 GCGGTTTGGCGCTCGGGTCAAGTGACTGCACTTTAAAGCGCCACCGCTGCCGCCAGGGCTGGCCAGAGCTGGGGACGTCCCTGGCTGGTGGGGCCGG  
 3701 CGCGCTGAGGCCGCCCAAGGGCCCGAGCGGCCCTGGCCAGGGCCTGGCTCACGGCCCTGGCTGGGACGTCCCTGGCTGGTGGGGCCGG  
 3801 GGCGCTACCCGGGCCACGGGCGTGTGCCACTAGTGCAGGGGGCCAGGGCCAGACAGTCAACCCGGCTGCACCTGGGAGCCGGCGCTGACTC  
 3901 TCCGGAGATCCGGCTGTGAGGGGGCCGGAACTGAGGGCCAGACTGAGGGCTGGGTAAGGAATCCGGCCAGATTCCGGGGGACGCCCTTCACCTTGGC  
 4001 CTAGCCCCTGCCCTTCTCGGGCACTGACTTCTCCAGGACCGTGTGGAACTCCGGCCCTGGAAAAAAACTTCTCCGTCTCCGGCTTGGAGAACGAGT  
 4101 GTGGGGTTTCTATCGGGGACATTAGGACCAAAGATACTCGGGATCTCTACAGCAGCTCCCTGGTTTACGTCGGAGAACCCGGAGCTCGG  
 4201 AGATGGCTTGATTTCCAGACAACTGGCAGAGATTTGGGCAAAACCGAGGATTAAGACACAGGTCTTGTGCCATCCGGGGCTGGCCCTCCACTGCGCGT  
 4301 TGATCTGGCTACGGTAGGGCTTCAAGGGCTTAGTGAACGCTGAATACTTTTACTCAAGATGGAAAGATAGGGCAGATTATCTTCGCCCCCTCTAGA  
 4401 AACCTTATTGAAACCCCTGCTGGTTAACTAGTAATAGCCAGCACCTACTAAGTCAGGGACTGTCTGGACCCCTATGTAAGATGTGCTGGCCT  
 4501 TCCAAGGAACCTTGTACTGATGGAGCGGATGGGATGCCAGGGAAATIGAGATAGCTACAGGGCTGTGATGGGCTAGAAGATGGGTAGTTGG  
 4601 TAGTGTGTGGCCCAAGAGATGGGGGGTAGCTGGCTTGTGGAAAGGATGGCAGGAAGGGTTGGAGGTGGGGCTGGCTGGGGTAATCAGGGTATGATG  
 4701 CGGGCAGTTGTGTGGGGAGCAGTGAGGCCATTAGTCTGGTTGAAGCTTATAGAATTCTCTGGGTATTAGAAGGACACAAGTCTGTATTATAA  
 4801 CAGTAGGGTAATGCTGGCTCGGTCTGAATTAGTGGGATTTCCTGGGATTTCCAACTCGTAGTAGGGAGGCCATTAAAGTTTGAGCTGGAAAGTTATC

FIG. 2A

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4901 GATGGAACCTGGGGTTAGGAAAGTAGTTGGCTGTGTCAGGATGTCAGGAAGTGGAGAGACTCTAACGGCAGAGAACCTGTTGGACTTAGCTCT  
5001 TTACTCGCTGTATTAGGATGTCAGGACTGGGCAACTAAAGATACTAACATGAGACTCTATGGAAGCTTCTCTGTTCTCTGTTCCACTACAC  
5101 AAAATCTCTATAATGTCGAAAGACCCCTGAATCTAGGAAATCAGGTGTAAGGCACAGGAGCATCTCTTCTCTTGTCTCTGTTCTCTGCTTCT  
5201 TTGTTCTAATTCTACTGATAGGCTAGGCTAGCTCTCATACTGTCCTCACAGCATATGACATTCTGATTTAAAGAAAGCACCATTAAAGTT  
5301 TTGTTATAACTAAGTGGTTGTAGTTCTAGTAAAATACATTCTCTGATTTAAAGTCCGGTCGACCATCAGCTTAAAGATACTGTTTCTCT  
5401 AAAGATGGAATTTGAGAGATTCAACGATAATGAATGAGATGCCAGCTAGGAAAGCCTAACATCTGAAAGCTACCCATATCTCATCTAAAGGATC  
5501 GGTCACCAAAACGGATTAGGCATAGTTAGGAAGGAAAGCCTAACATCTGAAAGCTACCCATATCTCATCTAAAGGATCCTAACAGCCCTACTG  
5601 TACATAGTCCGAAGAATGTCATTACAGAGATGCCACACAGCTATTCTGGAAGAGCTGGGATTTAACCCATGTCATCTGGCATCGGAGCTGAC  
5701 TTAAGTCTATGTTAGTATTGGCAAAACACAAGTACTGCCCTCTGCTGTTAGTGGGATTCACCTCTGGTCAACTCTGGAGACAGATGGTCTTAAAGCAT  
5801 TTATGTAAGATCACTTCAATTACAGACTAACCTCTGGTCAACTCTGGTCAACTCTGGTCAACTCTGGAGACAGATGGTCTTAAAGCAT  
5901 CCTGGAGATAATGCCATTCTGGCAACAACTTGGGCCACTGGCATCAGTCATCTCACCTTGAGCAGCAGCTTACCTGTTGAGATTTCTCTTCC  
6001 GCGTTAGGAAACAGTGGTAGTCTAGTTGGACTACATCAACATTCAAGCTTAAACTCTGCACTACAGGTTTAACTGCTCATCTGAAAGAACAGG  
6101 GTTACCTCTGAAGTTCTTAACTCAACACATTCTGCTCTGTTAGAAGGTTAGGGCAGGTGGGGTGGCTCATGCTGTAATCCAAACACT  
6201 TTGACAGGGCCAGGTGGGGGATCACTTGAGGCTCAGGAGCTTAAGGACCCAGCTGGCAACATGTTGAAACCCATCTCTACTAAAAAATCAA  
6301 AGCCGGGGCTGGTGTGGGGGCTTACCTTCAACGACTACTCATGAGGCTGAGGCTGAGGAGAACATGCTTGGACCCGGAGGCTGAGGAGATCGCTGA  
6401 ACCCAGGGCCAGGCTGAGTCACTGAGCTGAGATCTGGCCTACTCCACTCAGCCTGGTACTGAGCAGGAGCTGTCTCTAAA  
6501 GGGACAGTCTCCCAAGGGTAGGGAGAAAAAAAGTTCAGTATGTTCTTTTTAAAGTTCAGACAGGGTTCAACTCTGTCGAGGAGCTGGAGTCAG  
6601 TGATGTCATCTGCTACTGAGCTTCACTCTGGGTTCAACTGAGTACCTCCACCTCAGCTTCTGAGTAGCTGGACTGCCAGCTCTGGAGTCAG  
6701 CCCACAATTATTGTTAGTATTGGTAGAGATGGGTTTGTCTAGTGTGCCCCAGGGTCTGCTCAACATTCTGGCTCATGAAACATCCCCTGGCTCC  
6801 AGTGTGGGTTACAGGATCAGCCACTGTGGCAGGCCAGTATGTTCTAAACACTGTTCTCTGTTCTGTTGTTGTTATTTATCTCTCT  
6901 AAACATGTCAGGAGGATCAGGCTCATTGTTAGCAGGATGACAAGGCTAGACACTTCTCTCACAGGGTAGATCTCATGATAGTTAGGTT  
7001 TGAGCTCTCTCATTTGGCTCTTCAGTCTGTTAGTGTAGGATTAGCATTTGAAATGCTACTCTGTAGTGCACACACTGTGTC  
7101 AGTACTATGTAATGCAAAGATAACCTAAATCTTGCTCTCAAGGAGCTTCACTAAACAGTAAACTGCTTACCTCTGACCTTTACTAGAACACCT  
7201 CCACATTATGTTCTCTGTTCTCTGAAACACTTGTGTTTAACTTGGAAACACTTAGTATTCTACCATACTGATACTTCTTAAAGTGGGAC  
7301 TTATTTTATTCTCTCAAAAGAACATGTTAGTTCTTCTGCTTAAAGTGTACTTTTTTTGAGACTCTGTTCTGTTGCCCCAGGCT  
7401 GGAGAGTGAACAGATCTGGCTACTGCAACTCCACCTCCCGGTTCAAGTGTACTCTGCTCAGCCTCCAGAGTAGCTGGGATTACAGGTGTTG  
7501 CACCAACACAACTAAATTCTGTTAGTGTAGCAGTGGGATTCTCCACATGATGGCTCTGAGACTCTGCTACTCTGCT  
7601 TGCCCTCCAAAGGTGCTGGATTACAGCGTCAAGGCACTGGCCTCGGAGAACATATTAAAGTAGGACTCACATCTGTTCTGAAGGGAGCATC  
7701 ACTCTGCTGACACATAGTAGGACTCTAGTACATATTACTGCTATACTTAATTGTTCTTCAAAACAAATTTTTCTGTAAGTGGCTTAA  
7801 GTTGTGCTATGTTGTTCTTCTGAGTTAGTTCTGTTCTGCTTAAAGTGTACTTTTTTTGAGACTCTGTTCTGTTGCCCCAGGCT  
7901 CAAGACCCAATCTCTGAGTCTTCTACCTTAAAGATTCTTGGAGTGTACTCTGACCTCATCTAGGCTCATGATCT  
8001 TCGTAACATCTACATCAGTGAAGATTCTCAGCTGAACAGGTTTGAACACTGACTTTTCCAGCTTCTGCTCTCCACTAGTTGATTCTATCATCACA  
8101 TCAGATTAAACACATTCTTCAAGGCTGTCCTGCTTCAATATCAGGACTCTGTTCTGCTTCAAGTCTAACATTCTGACCCAGCA  
8201 TGAGCACTTCTGTTGCTGGCTTCTGCTTCAAGGCACTTCTGCTTCACTTCTGCTTCAAGTCTAACATTCTGCTTCTTACATGACCTTATT  
8301 CCCATTCCGAGATGCCCTTCTGTTCTTCTTATGACTAAATCTTTTCTTAAACAAATTTTTCTGTAAGGCTCACAAATTACTCTCTT  
8401 CTCAACTTAATTTTAAACATGTAAGTACACTTATTGATGTTTATATTGCTCTTATTCTTACTCTTATTAATTGCTATGAGCT  
8501 AGTATATAGGACAAAGAAAAAAACACTCTGTCACCTCTGTTACCATCTACTTTAGGAAACAAACATTCTCCAGCAACTTGTGACCTCTGCT  
8601 TATAACTCTGCTCTCCCTGTAAGGTTATGTTATTATTATTATTATTATTATTATTATTATTATTATTATTATT  
8701 TGCCCCAACTCTGGCTCACTGCAACCTCCATCAGGCTTCTGGCTCTGCTCAGCTCCAGGACTGCTGGGACTACAGCGCTGGCACCAC  
8801 GCCCGCTTAATTCTGTTAGTACAGCATGGGTTCTACCTGTTCTGCTTCAAGTCTGGCTTCTTAAACCCCTGACTCTGGTATCACCCAC  
8901 CCCAAAGTGTGGGATTACAGCGTGGGCCACCGTGCCCCGGTGTATTATTCTATATTGATAACAATTCTCTTAGTTCTTATAGTTTATCACAT  
9001 TTGAATACTCTTAAGCAGTATTGTTAGTTTATGTTTATTGTTTATGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTT  
9101 TTAACTTCTTATCATCATCTAAAGATGTTAGTGTACTCTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTT  
9201 TCTGTAAGATAGGCCATTCTATGTTGACAACTCCAAATGTTCTCTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTT  
9301 CTCAACAACTGTGAGTCACACTGGCTACTTGTGTTAGCTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTT  
9401 GAATGGCGAGAGCTTGCAGAGAACATAGGATTGTAACAGAGACTCTTGTGAGGAAATTTGAGGAAATTTGAGGAAATTTGAGGAAATTT  
9501 ATTCTTGGAGACAGGATCTACTGTCACCCAGGCTGGAGTGGCAGATCAAACACTACTGTCAGGCTCATGACTCTGGCTCAAGTGT  
9601 ACCTCAGCCTCTGCTAGTAGGACTACAGACTTGTGGCACCACATGCCCTGCTTATTAAATTAAATTAAATTAAATTAAATTAAATTAAATTAA  
9701 ATCTCTAACTCTGGCTTCAAGCAATTCT  
9801 ATAGAAGGAATGGTATTAGCAAGGTTCAAAAGTAGGAAATTCAAAATATCAGAAAGGAAAGTAGAAATTGAGGATGAAACAGAGGAGTT  
9901 TGCTTTTGTGCAACTTCTGAGTACATGAAAGCTGTTTTGGCTTAATCTGCTTCTGAGGACACCCAGGAGCAGAGATG  
10001 GGGGATAACAGGAGTAGTACAAATGCAAGGAAAGAAGAGTGTGAGAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
10101 GGAGCATGTTGGGAGTAGCAGAGAACCTGAGGTTGAGTGTGACTTTGACTCTAGAATAGGAGGGCACCAGGGTAGGGAAACTCTGCGGGG  
10201 GACCCAGCTGGGAAGAAGTCTAGGAGTAGTTGCTCTGCTGCTGAGGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
10301 GGTACAGCAGTGGCAGACTGGCAGCTGGCTGTTAGGACTCTTGGGCTGCTGTTACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
10401 AGGGAACTAACATCTGTTAGTGTAGCTGCTGAGGACTAGTTCAATTGAAAGATCAGAACACCATCTGATGAAACTACTGACCTACTACT  
10501 ATTGTTTGTGCTTAAGGATAGGATGAGGCTAGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT  
10601 TGACGATGTTAACCTAAAGGATTTAGTAGCTAATTTGTTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCT  
10701 TATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCT  
10801 TCTTTTTTTTCTTCTTCTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCT  
10901 CCATGAACTTCAATTGTTGTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCT  
11001 TCCAGTTTATGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCTTATTGCT  
11101 CTGTCACTCTGAGTGGCTAGGGCTAGTGGCTGAGTGGCTGAGTGGCTGAGTGGCTGAGTGGCTGAGTGGCTGAGTGGCTGAGTGGCT  
11201 TTCTCTGGTAGCTGGGCTAGTGGCTGAGTGGCTGAGTGGCTGAGTGGCTGAGTGGCTGAGTGGCTGAGTGGCTGAGTGGCTGAGTGGCT  
11301 GTCATGTTGGCCAGACTGGCTTAAACTCTGGCTTCAAGCTTCTGGCTTCAACCTACCTGGCTTAACTTGGTGTGGGGGGTAGT  
11401 CCTACATATGTTGCTTGTGTTAATGGCACCGTAAATTGTTGAGGAGTAGTGGCTGAGTGGCTGAGTGGCTGAGTGGCTGAGTGGCT  
11501 AAGAGGTTAACTGCTCAAGGATACACAGCTACTGGGCTAGGATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG  
11601 TGCTCTCTCTGAGTGGCTGAGGATCTTGTAGAGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG

FIG. 2B

Heller Ehrman White & McAuliffe, LLP

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Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

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11701 AGTCTGAAGTCATTACTGGATAGCCAAAGGGGAGATCTGCAGGAAGCATTGAAAATATGACTGGAACCTGGTAAGAAGGCCGTGAGCTGATTTCTAAATCT  
11801 GAAGATAGACTTGAAAGACACCGACATGGATGGATAGGAAAATAATCTATGTTAGCATGCCGTGGGGAGGGCAGCCTGACAATGCTCACATTAA  
11901 GGTATAAGAACGAAACATAGTTGGAGAGCTGGGGATAGAGGGAGATGATCTGGAAAGATCTGGAAAGATCTGGAAAGATCTGGAAAGAGATTTGG  
12001 GGAGAATAGGGCTTGTAGAAAAGAACAAATACATTCTTCTTTTTTTTTTTTTTTAGAGATGAGCTCGCTGTGTTGCCAGGCTGGA  
12101 GTGCACTGGTCTACTGCAACCTCTGTCTCTGAGTCTGAACGAACTTCATCCTTCTAGGCTCTGAGTCTGCAATTACAGGTGCCCCACCCATGCC  
12201 CAGCTTAATTCTTCTTCTTCTTCTTCTTGAGACAGACTCGCTGTGACCACCCCTGGAGTGCAGTGGCAGATCTGACCCACTGAGCCTC  
12301 CGGCCCTGGGTCAGCAAGCAATTCTGTGATTCAGGCTGGCTCTGAGTCTGCAACCCACCTCAGGCTCTGCTTGTGAGCTGCCAGGCTGA  
12401 ATGGGGTTTCACCAAGTGTGGCCAGGCTGGCTCAACCTCTGACCTCAGGGTGTCAACCCACCTCAGGCTCTGCTGGGATTACAGGCATGAGCC  
12501 AGCACACCTGGTACTGTATTCTGTATCTTAATTAGAGAATTCTGTGTTAGCCAGCTTATTTAGAGATGGGGCTTAA  
12601 CTGTCGTGAGAGTTGGCTTGTAGAATCTCTGGCTCAAGTGTCTGCTTGTAGCCAGTCTGGCTTGTGAGATGCCAGCTTATTTAGAGATGGGGCTTAA  
12701 TGTTTACATTTCTGATTCTCCCACTTGATCTATGGACATTAGTACAGTTTCTGAGTCTGGCTTGTGAGATGCCAGGATTA  
12801 TTTTGTAGAGACAGTCTGGCTTGTAGCCAGGCTGGAGATGCCAGTGGCAGCTGGCTTGTGAGTCTGGCTTGTGAGATGCCAGGATTA  
12901 CAGCCCTCTGAGTACTGGGACTACAGCGCTGTGCCACCATGCCACTAATTGTTGTTTTAGTAGAGAGACAGGGTTGCTCATGGCAGGC  
13001 TGGTCTCAACTCCGACCTCAAGTGTGATCTGCCCTCTGCTTGTGAGCTTAAAGTGTGGGATTACAGGTGAAAGTACCTTCTGCTTGTGAGATTTG  
13101 TATATGATCAAAATCTTATAGATGATCTATGGTCCATATTCTCTCTGGAGACTATCTCTGCTTGTGAGCTTGTGAGATTTGAACTAGT  
13201 TTTCCTCAGGCTGTGACAGAATGGTGTGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
13301 TTGTCCTCATTCAGAAGTAGTGTGATATGGAAACAGGTTCTAGTAAAGACTACAGGGAATACATTGAGATCTGGTGTGAGTCTGGTGTGAGCTTGTGAG  
13401 GAAAATAGATCTGGCTTGTAGTGAATCTACACCTTGTAGATAAAGACTACAAAAGTGAGAGATGACCTCAATGGCTTCCACTCCCACATCC  
13501 AGCTAGAATTTAGTATTCTAAGTACTTGGAAATTAGTTTACAGGTTATGAGTATGTTAAAGCAGGCTTCAGGGATATCTTGT  
13601 GAGACTTTGACAAAAAAAGACATATGGCTTCTTTTCCCCTTAAATGAACTTTAAAGTAAAGTTTTAATGAACTTAAAGATTGCTTCTTCTT  
13701 CTTTTTCTCTTCTTCTTGTGAGACGGAGTCTGCTCAGCTGGCAGCTAGTGGAGACTACAGGGCGTGCACCCACACCCAGCTAATT  
13801 CCAGGTGAAGCGATCTCTGCTCAGCTTCAAGTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
13901 GTTTCACCATGGTGGCCAGGATGCTCAACTCTGACCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
14001 CCAGCTTTTTTTTGTGAGACAGACTCTGACTCTGAGTGGCCAGCTGGAGTCTGGAGTCTGGAGTCTGGAGTCTGGAGTCTGGAGTCTGGAGTCTGGAGTCTGGAG  
14101 AGATTCAGTGTATTCTCTTCAAGGAGCTGGAAACTACAGGGATGACCCACACACCCAGCTAATTGTTGTTAGAGATGGGG  
14201 GTTTCACCATGGTTTCTCCCTGGGGAGGGCTGGCTTGTGCTTGTGAGCTGGGGAGGGCTGGAGTCTGGCTCACTGCAACCTCTGGCTCC  
14301 CGGGCTCAACAAATTCTCTGCTCAGCTTCAAGTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
14401 GTTTCACCATGGTGGCAGGCTGTCAACGCTGACTTCAGTTGATCTGTCACCTCGGCCCTCCAAAGTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
14501 GCCAACCCAGGGTTCACCATGGTGGCAGGCTGTCAACTCTGACTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
14601 TGAGCCACCCAGGCTGTCTTCTTGTGAGGAGAATTAAGGAAATTGGAATTTCTGCTTAAACAAAGATAATGAACTTGTGAGCTTGTGAGCTTGTGAG  
14701 ATTTCCTCTTTCTTGTGAGTTGAGAAAGTTCTCCCTCCATTGTTGGCTACTCTGTTGTTCTGATGCTGCTGATGGCAATAT  
14801 AGGGTGGGAGCTGGTGGATAACATTGGTGGTAAATTCTGAGGAGGTTTGTGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
14901 TTGTAACAGACTTTAACTGACATTCAGTTGAGAAATTCTCTCTATAGTCTCATTCATAGCTTCAATTGGGAGCCAGTGTGAGTGTAGTGGAAAAG  
15001 TCACTCTGACTTGACACTTGGTTATCTTTTATCTGAGATTGGTAGTTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
15101 ATTAATCTACCAACTTGGTTCTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
15201 TTGCTTATTTTACAGAGTATGACGACTTAAATAGGGTACTCTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
15301 TAAATGGAAATCAACACTTGAAGAAATCTGAGAGTTCTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
15401 TAGCTGAGCTAGGGAGAGTTGCTTCTGAGGGCCACTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
15501 ATATTGATGCTGGTCTATACAGTATTGAGGAAATTAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
15601 CACATGAAATTGCTCCGAAAGTACAGAAATGATTTGTGAACTCAGGACTACCTTGTGCTATTAAAGTTTACAGTACATCTTATT  
15701 TTTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
15801 CATTCTCTGCTCACCCCTCAAGTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
15901 TTTCACCATGGTGGAGATGGTCTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
16001 CCCACCTTACATCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
16101 CTATAGGAGGTGACAGAGAAATGAAAGTCCACACTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
16201 TTACTTATTTATTTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
16301 TGAAGTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
16401 TTACCATGTTGGCAAGCTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
16501 CCAGCTGAGCCACACCCGGCTGAGTTGCTTATTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
16601 GCTCTAGGAAAGTAAGTGGAGCTACGGCTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
16701 GAGCTCTGCTGTGCTCTGGCTCTGGCTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
16801 TGAGTAGCTGAGACTACAGGTGCGCACCCATGCCCTGGCTAATTGTTGTTAGAGACGGAGGTTTCCCTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
16901 TCCTGCTCAGGTGATCCAGTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
17001 CTCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
17101 AAGAACCTTTGGAGCAAGATGGCTACATTAGGTTCTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
17201 CAGAGCAAAATAGAACGAACTATGGGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
17301 AGCAGAAATTATGCACTTATTATGGCAACAACTACATGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
17401 AGAGGAATTAATGAGACGACACTAGAGTTACTTCTCCCTTAAACAACTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
17501 TTGCTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
17601 AATCTCAACTTACCTGAGGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
17701 CACAGTGATACCTGCTCTCAAAAAAAAGAAAAAAATACATCTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
17801 AAAACATTCTGCTACCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
17901 TATGGATTGCTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
18001 TCATATTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
18101 GACATTGGATTATCTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
18201 GGATATGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
18301 GCATTCCACCAAGCAGTGTGAGAAATTCCAAATTCTCTATATCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG  
18401 TGGTGTCTCATGGAAATTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAG

FIG. 2C

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# **Title: Genes and Polymorphisms on Chromosome 10 Associated with Alzheimer's Disease and Other Neurodegenerative Diseases**

**Neurodegenerative Diseases**

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FIG. 2D

## **Heller Ehrman White & McAuliffe, LLP**

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## Title: Genes and Polymorphisms on Chromosome 10

#### **Associated with Alzheimer's Disease and Other**

Neurodegenerative Diseases

**Serial No. To be assigned**      **Applicants:** Becker *et al.*

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FIG. 2E

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## **Associated with Alzheimer's Disease and Other**

## **Neurodegenerative Diseases**

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*g*      *y*

FIG. 2F

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

38901 TCGAAGAGAAATTCTGACATTCTGTAAGATTGCCAGACTTCTGCATTGAGCTTCAGCAGTTAACAAAATACTTGGGGCCCTTCC  
39001 AACTTTTGTTGTTTGTCTCTTGTGCTCGCGCTAGGACAGCACCGGCTCTTATTAGAACCTTACAGGATTGTTCCCTCAT  
39101 TGGGGTGTGCTCCCTATGGGAGTTGCTCCCTATGTTCTGAGCATGTCATGTCAGCAGCTGCGAGTTCTCAGATCACCCATCTTCAT  
39201 GACAGTGTGTTGGCTAACCCAGTAATTCTTACACAAACATCACCTCACTTCTAGCAGATACCTCTGAATAGTGTGAATAAAACCTCTATT  
39301 TAGGTCGGGGCTAGTGGCTCACACTTGAATCTAGCACATTGGGAGGCTGAGGTGAGCTCAAGACCGCTGCTGAGGACTGAGCTAACAGACCAGCATGGGCTAA  
39401 CAAGTGAATACCCATCTACAAAAAAATGCAAAATAACTGGCTGTGTTGAGTGCCTGTTCCAGCTGCTTGGGGACTGAGCAGGAGGA  
39501 TGAGCTCACCTGAGGCCAGGAGTTGAGGCTGAGCTGAGCAGGAAATCAGCTACGCATACAGCCCTGAGCTGAGGACTGAGCTAACCCCTGCTC  
39601 ACAAAAACAAAAGCAGAAAAAAACTTATCTAGTCTGCTACAGGCCAACACATGGCTAACACCCTATCTCAAATCCCTATCCATGTCCT  
39701 TCAGATACAATATGCTCATGAAACAAATTGTTGAGCTTCTCAGAAGAAATGAGGGTAAGAGGGAGGAAGGAATGACTGCACCCCTGAGACTG  
39801 GCTATAAAAGTTCTTCAGCATTTAGAAAAATCTGATGTTATTATGGGTTACTTGACGTTATTGTTCTCCCTAAATATAAGTCACAAATCA

exon 2

39901 ACAATTAAAATCTCTTCTTTCAAGTTCCAAAAAAAGACTTACAGCAAATGAATAATCCAGCCATCAAGAGAAATAGGAATCACATTACCAAGTCTC

exon 2

40001 CTGAAGACAAGCAGAGAATATCGAGGGCTAGAGCTGGCAATGGTATCAAAGTACTCTTATCAGTGATCCCACACGGATAAGTCATCAGCAGCACTG  
exon 2

40101 TGTGCACATAGGTACAATTGAAAATTGTAAGTAAAGCTTGTGTTTGTGCTTCAATTGACCTAATGTCGACATTATTAGAACCTTCCATACGTGTTAAATAC  
40201 TCAATAGTTACCGGTTCCATGTACCTTATTGTTACACAGAACCCCTGTAAGCTATTGTAACACTGCAATTGTTCACTTACATTTCTA  
40301 AGGACATCTGTTAGGTCTCCACCTAACGGTAGCTAGCAGCAAAATTCACTGCAATTCTTACAGTAAACAGTTATGATTTTTTTACCGGGTACA  
40401 TTAAATTAACATTCTTTCTTTCTTTTTTTTTTTGAGACAGAGTTTACCTGTCGCCCCAGGCTGGAGTGCAGTGCGCAATCTCGGCTACTGC  
40501 AACCTCTGCTCTGGGTTCAAGCAATTCTACCTGCTCAGGCCCTCTGAGTAGCTGGGACTACAGGCATGGGCTCCATGCCAGCTAATTGTTGATT  
40601 TAATTAGAGATGGGGTTTCACTGGCTAGGATGGCTCAGTCATCTGACCTTGTGATCTGCTGCTTGGCTCCAAAGTGTGGGATTACAGCG  
40701 TGAGCCACCTGCTGCTGCCCTAACACATTCTAGGTTCTTGAGCTGCAATTCTTTTTCTTTTTCTCTGAGTGGGAGTTTGCTCTTGT  
40801 GCCCAGGCTGGAGTGCACATTGGTGATCTGGCTCAGTCAACCTTCCACCTCCGGGTTCAAGCAATTCTCCCTACCCCTCAGCTCCCAAGTAGCTGGGATT  
40901 ACAGCGGCCCTGCCAACACGCCCTAATTCTGATATTTTAGAGATGGGTTCTCCATCTGGTCAAGGCTGGTCTGAGCTCAGCTG  
41001 TCTGCCGCCTCGGCCCTCCAAAGTCAGGGATTACAGCGTGAAGCCTACTGCTCCAGCCTTGTGTCACATTCTTTTTTTTTGAGACGG  
41101 AGTTTCATCTGCTGCTGGGCTGGAGCTGGTCACTGGTGTCTGGCTGAGCTGGCTGAGTCAGCTGGCTCACCCTCCAGGTTCAAGCAATTCTGCTCACCCTCC  
41201 TGACTGCTGGATTACAGGCTCCACCATCATGCCCAATTGGTATTAGAGATGGGAGACGCCACATGCCCTGCCATGGCACATTCTACACATT  
41301 TCCCTGACCTCAGGTGATCCACCCGCCCTCAGGCCCTCCAAAGTGTGGATTATAGGGAGGAGCCACATGCCCTGCCATGGCACATTCTACACATT  
41401 ATGTTGCTTAATCAGGTTGCTCTTTTTCTCTGAGACAGACTCCTACTGTCGAGGCTGGGACTGGCAGTGGCAGTGGCAGTGGCAGTGGC  
41501 GCAGCCCCACCTCAAGGTTCAAGCAATTCTCCTACCCCTAGCTGGATTATAGGGCCGCCACACGCCACCTAATTGTTGATT  
41601 TTATTAGAGACGAGGTTTGGCATGTAGGGCAGGCTGATCTCAACACTCCGACCTCAGATGATCTACCCACCTCTGCCCTCCAAAGTGTGGGATTACG  
41701 GGTGTGGGCCACTGTGCTGGCAGGCTGGCTTATGTTATGTCAGTGGGACTGGCTTCTTGTCTCTTGTGAAAACCTTTAACTCAGT  
41801 GTCATTTTAAAGACTAAGGTTAATTCACAAATAACTACTGCTCTTACCATATACTGCTTAACTGCTTAACTGCTTAACTGCTTAACT  
41901 TGACTCACACAGGCCCTGAAAGTGTGGATTATGGCAGGACTGAGTAAGATGCTACTGCTTCTGCTTACAGGCTGGCTTACAGGCTGGTAAC  
42001 CCCCAAAGCCTGCTTAACACTCTGCTGTTACTCTGCTGTAACGAGATGCAATTCTGCAATGACAAGAAATTCTGCTTCTGCTTACAGGCT  
42101 AATCCCAGCATTGGGAGGCCAGGCTGGCGGATCACAGGAGTCAAGGAGATGCAACAGCTGGTCAACAGCTGAAACCCGCCCTAATAAAATAC  
42201 AAAGAATTAGCTGGGGCGGCTGTTGGCGCTGTAGTCCCAGCTACTCAGGAGCTGAGGAGGAGAATGGCGTAACCCAGGGAGCTGGCACTG  
42301 AGCCAAGATCTGCCACTGCACTCCAGGCGACAGAGCAAGACTCCGCTCAAAATAAAATAAAATAAAAGAAAATTCTTACCTTAA  
42401 AACTGTAATCCAGCTCTTCTCCCTCCGGCATGTGGGAACTAATGTTCAAGAGACACTAAGTACCTGCTGAGGTTACCAACTAATTAGGCTCA  
42501 GAGCAGGCACTAGAAACAGTCTCTGACTACTGATTACTTCAATAATATCATTTAGTAGCTGCTTAACTTCTGATTATACATTG  
exon 3

42601 GTTGTCTGCTAACAGAACTACAAATCACCTGACTTACTAACTTCACTGAGCATAGGACAATGATTATATACGTGTTCTCTTCAGGTTCATG  
exon 3

42701 CGGATCCTCCAAATATTGCTGGCTTAAGTCATTTTGTAACATATGCTTTTTGGAAACAAAGAAATACCTAAAGAAAATGAATAACAGCCAGTTCT  
exon 3

42801 CAGTGAGCATGCAGGAAGTCAAAATGCCCTTACTAGTGGAGAGCATACCAATTACTATTGATGTTCTCATGAACACCTAGAAGGTGCCCTAGACAGG  
exon 3

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42901 TAATGCAGAAATACCTATGAAATTCAACATTGTAATTGACTTACATTAATAAATAAATTATTAATTCACAGAGATGCTTCAATAATTAAACAAAAG  
43001 GTATTTAAACAGTGTGTTCTCTGTTCTGAAAAGAAAAGATGAGTGTCTATTTAAATGAGCCTTCAGGCTAACAAATATTATTCAG  
43101 GTATAGAAATTCTCAGGCCCTTCCATTCTAACCTGTTACATATAAAAGCATGTCATGAGGACTAACCTGTCATAAATGTCATGTCATCTTTCAGAC  
43201 ATACTTCGTTCCAGAAATGCTAACCTTAAATATTCTCTCTCGTCACTTCTGCTTCAAGGAGTGCCTAGTAGAGATACAGAACGTTTGACCTGCTG  
43301 TTCAACCGTGGGGATAATTGAGAAGTGTGTTCTGGAGCAAGCTCCATTAGGGCGATTAAATTCTGGTCAACCCGGGGATATTGAAATGTTCTG  
43401 GAGCAAGCTTACAGGATGATTAAATTCTCTGTCATTGTTCTGCTGCAATTGTTCTGAGCAGGACTTCCGACTTGTGTTCCAGGCTGGAAATGCAATTG  
43501 GTCTGGCTACTGCAACCTTCCGGCTTCCGGGTTCAAGCAATTCTCTGCTCAGGCCCTCCGAGTAATTGGGATTACAGGCTGCCCCACGCCCTGGC  
43601 TAATTTGTTATTTAGTAGAGATGGGGTTTACCATGTTGGTCAGGCTGGCTCGAACCTCTGACTTCACTGCTGATCCACCCACTCGCCTCAGAGT

FIG. 2G

Heller Ehrman White & McAuliffe, LLP

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**Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases**

**Serial No. To be assigned      Applicants: Becker *et al.*  
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43701 GCTGGGATTACAGGCATGAGCCACTGCGCCAGCCTGGTCAGCTTTTTTTTGTGCAATTTCATAACAGCTAACATTCTAATTTTTT  
 43801 GTTCATCACTGATTTCATATTGACTCAAATATGACTCACACTGGTGTGACCTTAAAGGCCAGTGAGCTTATTGTGTTATCCTTG  
 43901 TGAATATTATAGTTCTGTCAGTGCAGGTTGAAATTCATCTGCAACTTCTGGCATCTATAAATGAAATTTCGGCAGTTTACAGTCAGTGC  
 44001 TACTTTAATAATAGTTATTATGAAAACATTTACAAGGAAGGTTATGGGTTATGAGATGTGCTGGGCCAAAGTAGTCTGTTCTACTTA  
 44101 TTATTTTTATGTTCTGAGCTTAAAGGAGGTGAATCATCTGCAATTAGTATCTTCCAGAAAGCTTAACTTAAAGTCTGTTCTGAGCT  
 44201 ACAGTGAATTCTCATCTGCTTACAAATGTCAGCAGATGTCATATAATAGATCTGCTATAGTGGGATGTCCTGTTACTTGGCTCAAACAAAA  
 44301 ATCCACTTGATAAGAGGATCATTTAAAAAACTTTTATGTCATACATGATCCTTATCTGGGCTATCCAGCTTGGTATGAGCTATTAGA  
 44401 CATTTTCCCAGCCTGCAAGTATGGAGCTTAAAGGATTTGAGCAGAGATCTGCTTCTGTTAGGCTTAAAGTCAACTGCTTCTGAGACAG  
 44501 GAGTTTCCCCCTGCTGTTAGTAAAGTACTTGTGCTATCTTCTGCTTAAAGTAAATAACAGGAAATGATAATGGCTTCTGAGACAG  
 44601 CTGGACTGTGAGGCGTAGTAACGTGAGATGTTATGGACCCAAGGTTAGGCCACTGAATAAAAGTAGTCTTACAGAGCCTCTGCTTCTGAGCT  
 44701 ATCTGAATCAAGTCTTCTTAAAGGAGGTGAATCTTAAAGAATCTGAGGAGCTAGTGTGAGCTTAACTGATAGTATAAGAAGGTTAATT  
 44801 TATTGAGCTGAGGTATCTTAAAGGAGGTGAATTTTAAAGGAGGATTTGTTACTTAAAGGAGTAAAGGAGGATATTGGTTACTTATGTTAAAGTAC  
 44901 ATTGAATCACTGTTATTAAAAATTGGACTTTTCTCTATGATTTCTATGATTTCTATGATTTCTATGATTTCTATGATTTCTATGCTACCTCAGGTTT  
 45001 TTACTGCTTATGTTCTTCTACTAACTTCAAGTGTGTTCTTCTATGATTTCTATGATTTCTATGATTTCTATGATTTCTATGCTACCTGTT  
 45101 GTCTTAAAGGCTGCTGAGTCTAAAGTGAACCTTAAACTGATTTCTATGATTTCTATGATTTCTATGATTTCTATGATTTCTATGCTACCTGTT  
 45201 TTTTTTTGGAGCATTAGGCCATGTAAACAAAGTTTTATAGCTTACCAAAATTAAATAGACTGCTATTGTCATAATCTGCTTCTGAG  
 45301 GTGTTAATTAAATTTCATGTTCTGTTATGTCATCTGCTGAGCTTACCTCTGCTTACCTGTCATAATTGATTTCTTCTGTCATAG  
 45401 CAATTATTATGACTCTTCTTCTGAGTCAATGGTAGTTCTGTTCTGCTTACCTCTGCTTACCTGTCATAATTGATTTCTTCTGTCATAG  
 exon 4

45501 AAAAGGCTATTGTTAAATGACATCTTCAGTTAATTATGTTCTGACCTTACGGTTGCACAGTTTTCTGTGCCCCCTGTCATGAAAGTT

exon 4

45601 GCAAAGACAGAGAGGTGAATGCAAGTTCAGAACATGAGAAGAATGTGATGATGATGCCCTGGAGACTCTTCATAATTGAAAGCTACAGGAATCC

exon 4

45701 TAAACACCCCTTCAGTAAATTGGGACAGGTTGTCAACAGCTGCTTCTGACCTCATTTAACCCATGGCCTAGTGCATAGTATTATTTATGAT  
 45801 ATATAAAATATTTATGTTATTTATGATATAACCCATGGCATATACAGTTCATGGCATATTTCACATTTCAGGATAGATTCCAAAATTCCACATT  
 45901 TCTACTTCTATCTGCTTCAAAAGCTTACCTTCAAAAGTACTTTTGTAAAGGAGCAGAGCTTGTGAAATAGTATAACCCAGCATTCATATGGAGAAGATAA  
 46001 TAGATTCTTATTCTCAAAGCTTACCTTCAAAAGTACTTTTGTAAAGGAGCAGAGCTTGTGAAATAGTATAACCCAGCATTCATATGGAGAAGATAA  
 46101 GCTAATCCAGATGCAAGCTGCTGATGGGTTAGCTGCTGAGGAGACTGTAGAAGACACACAAGATCCAGCTTAAAGTCTACAATCT  
 46201 CCTAGAGGAGATAAAAGGTTAGGAAACAGGAAGTAAAGTAAACCTGGGACTCTGACTTAACTTAAAGTGTGACCTTCTTCTTCAATTTCATTA  
 46301 AAAAGTACTGTTAAATTAAACAGTACAAAGCTTACAGTAAAGTAAACAAAGCAGAACACAAAGTCTGCTTATCTTCTTATGCTTCAATTTCATTA  
 46401 TCATGCTCACCAGAGGTAATCATTGTTAACAGATTGCTATACTTTAAAGTGTGTTGGTATTATAAAAGTACATAAGAATAATGATAATATTTAT  
 46501 TTAATGACTTAAAGGTTATCTTAAATTCTACTTCTTCTTAAAGGAGACATGCTTATTGTTAAAGGAGCTTGTGTTAAACCAACTAAAGA  
 46601 CAACTTCTTAAAGGTTGATATCATCTTAAAGGAGCTTACAGCAGTCAAGGAAATTAGCATGCTTACAGGAAATTAGGAGTTTCTTAAAGGAGCTT  
 46701 GAAGCAGTGTATTTATCTTAAAGGAGCTTACAGTACATCTGTTAGCTGCTGAGGAGACTGTGTTAGTGTGCTCTAGAATGCTACATAAT  
 46801 GCTGTTAAAGGAGGTTAAAGGAGGTTCTGGAGAACATCAGTACATCTGTTAGCTGCTGAGGAGACTGTGTTAAAGGAGGTTAAAGGAGGAGCT  
 46901 GTGCTCCTGCTGAGTCAACTGCAACACTTAAAGGAGAACAGCTGGGAGGATTCTCTGAGTTAGGAGTTGAGCCTGGCACAATAGTGACAC  
 47001 TATCTTACAAGAAAATAATTAGCCAGGATGGTGTGTCCTGCTGAGCTACCTGGGAGGCTGAGGATGCGCTTGGCAGTGTGAGCTTCA  
 47101 ACTGAGTGGCACAATTGAGCTACTGCACTCCGGCTGGTGTAGTAAAGCCTGGGACTCTCAAAATAAAACAAACAACTTTTTTGTGTTTT  
 47201 GCATTACATTCAAGCTTATTATTATTATTATTATTATTGAGACGGAGTCTGGCTTCTATCACCCAGCTGGAAATGCACTGGCTGATT  
 47301 TCAGCTCGTACAACCTCTGCCCTCTAGGTTCCAGCAATTCTCTGCCCTCTAGGTTCCAGCAATTCTCTGCCCTCTAGGTTCCAGCTGGGATT  
 47401 TTGTGACTTTAGTGAAGGGGGTTCTCATGCTGCTGAGGCTTCAAAATCTGATCTGCTGAGGTTCTGAGGTTCTGAGGTTCTGCTGAGGTT  
 47501 TGGAATTACAGCGCTGAGCACTGGCCTGGGCTTAAAGTAAAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGT  
 47601 TGTGGAGCTCTTGGGAGTTGCCCTTTAAATAGCTTACTGGTACAAATTATACTGATATAAGGAGCTTGTGAGGAGCTTGTGAGGAGCTTGTG  
 47701 TAAATCAGTGAATAAGGAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTG  
 47801 TCTTGAACCGCTGGCTCAACTTCTCTGCCCTGCCCTTCAAGCTGCTGAGTAAAGGAGCTTGTGCTTCTGCTACTGCAACCTCTGCCCT  
 47901 ATATTCTATAGAAGGGTTTCAGGAATGATGGCAAAAGAGATACATTGCAATGGCATACTCCATATGGGTAAGTTTCAGGGCATATTCTTCTGCTG  
 48001 AAAAGTACGGCAAGTAAAGTACACAGGATAATAACACCTGAGGAAACAGTGCAGGCAACTCAATACAGCTACAGGAGACAGTCAATACAGCT  
 48101 AAATCTCAACTTCTGCTTAACTTAAACCTTAAAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGT  
 48201 TTGTGACAGTGTGATGCCCTATCTCAGATATTGCAATTGAAAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGT  
 48301 TTATGAGATTGCTTGGCTCAGATGTTGAGTTGAGTGTGCTGGGCACTTTGTTCTCATGCTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGT  
 48401 TTGAGACAGTCTGCTCTGCCCTCAGGCTGGAGTGTGCTACTGCACTCTGCCCTCTGCTACTGCAACCTCTGCCCTCTGCTACTGCAACCTCTGCCCT  
 48501 GCCCTCTGACTAGCTGGGATTACGGGACCCACCCACATGCCAGCTAATTGTTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGT  
 48601 TCGAACTCTGACCTCAAGTGTGCTGGGCTCAGGCTGGGCTCAGGCTGGGCTCAGGCTGGGCTCAGGCTGGGCTCAGGCTGGGCTCAGGCTGGC  
 48701 TAAATAATAATTACAGAAAAGGTTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGT  
 48801 CCTAACAGTCGGTTCTCATGCTCAGAAATAGTATAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGT  
 48901 TTCAAGTACATATTGTTGTTGTAAGCAGTAAAGGAAACAAATTGTCACATCTACATGCTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGT  
 49001 TGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGT  
 49101 TGATAGACAGTACTGCTGAGCATTGGATAAAACACAGCACTCATCCATGAAACAAAATAACCCACAACAAATAAAACCTTCAAGCTGATTAAAGCTA  
 49201 TTGTCAAACCTTCAAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGTGTTAGTGT  
 49301 CATTACAATAACCAAGGGGAAATGTGATTAAAGAGATGGGAAAGGAGCACAACAAACAAACAAACAAACAAACAAACAAACAAACAAACAAACAAACAA  
 49401 AAAATCTGAAGAAAATCTCAGATCAGTCAATTAAAATAATTCAGCAAGGTTGCCAGAAAGAAGACAAACACTAAATTGCGCTTCTGGAGTACAG  
 49501 TGGCTGACCTGGCTACTGCCACCTCCGCCCTCAGGTTCAACAGATTCCCTGTCAGCTCCCCAGTAGTGTGAGGATTACAGGCACGTGCCACAC

**FIG. 2H**

**Heller Ehrman White & McAuliffe, LLP**  
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## Title: Genes and Polymorphisms on Chromosome 10

#### **Associated with Alzheimer's Disease and Other**

## **Neurodegenerative Diseases**

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**FIG. 21**

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

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56401 AAGGCAGGATAAAATGCTTTATTCCATTCCATTACCAATTTCAAAATAATGAATTGGTTCGTCAAGCATCCTTCAGGGTACTAATTGTTTTT  
56501 GAGTATCACATAGACTCATGGATGTAACCAACATTCATATTACTGTCATGTCATGTCATGTCATGTCAGGGTACTAATTGTTCTTCATGGATTTTGTTACTTC  
56601 TTTTTCTCGTTACTGGGATATGTCCTGTCAGGAAAATCTGAAACAGACCTGGACCAATCAAGTGAGGAGTGTGTTCTGATGGCATTT  
56701 AAAGGGTTTCACTAAAGTCCCTTTATACTCATATCTGTACTTGCATATACTTACTCAGTCAGCAGAGAATTGTCGTTAAATTGGGGAAA  
56801 ATTCACATATATAACCAAGGCTTACTGTCCTACTCCAGGATTTAGAAGATGCTATGCAAGAAGAACAGGCTTAAAGGTTATAATAATCC  
56901 AAAGTAACTAGCTATAGGTATGTCAGCTAACCTTCAGGATCTGGGTTTCAGAGACATATAAAATTATAAGGTTATAACTATCAAGTCACTTC  
57001 CCTGAGAACATACATTGGAGAACCTGTGGTTCTAACAGCCTTCTAAACACTTAAACACTCATTCCTCCAGTATAAGAAATATAATTGCTGGCTTCAGA  
57101 ATTTCCAGGAAATAAATTTTAATGGGATGAAACTAGTATTCATACATTAGTGTGAGTTGTAAGCTTATTTGTTCTAAACAGAATTAAAAAATA  
57201 GTGTTAAAATGAAATAAATGAGTAGCACTTACTGGGATTTACATTACACCTTCGTCATGTCAGGCTTAACTGGATTTTATGAGATGGACTTGTGCTGCA  
57301 ATGTTAATATTCACTAATTATGTCTGATAGATGCTATGTCAGGCTTAACTGGATTTTATGAGATGGACTTGTGCTGCA  
57401 CTGGAGTCAGTGCTGGCTTACTGCAACCTCACCTCCAGGAGTCAGGCTTAACTGGACTTGTGCTGCA  
57501 GACCACCATGCTGCTTAATTGGTATTTCAGGAGGGGTTTGCAATTGTCAGGCTTCAGGCTTCAGGCTTCAGGCTTCAGGCTTCAGGCTTCAGGCT  
57601 TGCCCTAGCCTCAAAGTGTGATTACAGGTCTAGCAGCACCGCGCTGGCAGATTATTATTTAATTCTCACAGCAATCTGTGAGGTTGGTCC  
57701 TCTTATTGACCTTATGAAATAAGTACAGGCTTAAGAGCTTAAAGAACACTGGCTCTGCTGTCTCACAGCTAGGTTTATTTGTTCTAAACAGGATT  
57801 GAGGCTTCTGCTTCTGCTTACAGGACATATCCATTATCCATTATCCATTATCCATTACAGGATTTGGAGATAATTGGAGACTTTTCAA  
57901 GGTGCTTAATTAGCACATGAGGAGTCAGGACAAGAACCTCTGAATTCTAAATGCCAAGGCTGTTCTCTAGCAGCGTAGACTGGAGGGTCA  
58001 CAGTGGTGGACACCCCTGCTCCATTCTGCTGGAGCTACCTGGAGCTAACGAGCTAACAGGAGTAGGTTAGGATTAAGGATTGAGATTGAGCAGC  
58101 ATTAAATTGACATAAAATGACCCAGCTGAATTAGGACAAATAATTAGGACAGTATGTCAGGTTAGAGCTGAATTGTTATTATCCCAGCTTATTACG  
58201 TTGTTCTCATACTGGTTCTAGGTGTGGGGCAGTCATGGACCATTTACTCAGCTCTAGGCCAAATTCTATTTTTCTGGGAGTACA  
58301 TCTTTTGTATAATGATTCACAGGAGACTCTGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
58401 TTATAAATGATTATGTTAAATATTCTGAGTATTTCAGATTATGAGTGTGAGTGTGCTACAGAACAGGTTAGGATCACAGACATTGGCAGATCATCTCT  
58501 GTCACACTGCTAAAGAACAGGTTACAAATGCACTTGTGACATCCTGGTGTACACTTCTGCTTCTGCTGAGGATAACCACTA  
58601 TTCTCTTAAAGTATTATCATTCCGTTATAGTTTATGTTTTAGGTTCTGAGGAAATAGTATTATTGTTGTTGTAATCTGGCCGTTGTATT  
58701 TTTCATTCAACATTGTTGTAAGGTTGCTCATATTGATGAGTATTCCTGCTAATTGTCATGAGTATTCTGCTGCTTGTGTTGAAATTGATTGAC  
58801 TGACCACTATTATTCATTCCTGTTAATGAAACAGTGTACTATGGAATTGTTGACATGTCCTCTGACAGACTCTCTGGATACATATATCC  
58901 AGGAGTGGAAACTACTATGTTAGGAGATGACATTCAGATTGACTGTTCTGGCTGATTCAAGGACTAGCTACTGTTGTTGTTGTTGTTTAT  
59001 GAGTTCTCATTCTGCTACATAACAAACAGTGGCTGTAAGACTTAACTATTGTTGTAAGTAATAGTCTTATCTTATTGTTTACGTGTTATTCTC  
59101 ATTATGTAATGTAAGTCCACTAATGTCAGTTGAGGAGATTGAGCCACAGAGAAGTAAGTAACCTGTTCAAGGCCATGCACTGAGAAGATATCTGGCCC  
59201 AGGAGAACATTAATGAAATGGAGGGAGTCAGTGGAGCTAACGAGCTAACAGGCTTAAACAGGCTTAAAGGACTTCAAGGAAACTCCCTAGAATGGC  
59301 TTTCAGGATCTTCAATTGAGAACAGGCTTCATCAACTAACATTACATTCACTGGTATGAGGAGACTCTGGGCTCTGAGGAGGTTT  
59401 TTTCCTCAAGGAGTTAGGACTATGGGTATGACCTAACAGCATCTGGACCCCTCAGGTAGAGTGGAGAGAATAGAGAAATGTCAGGACCTCTGGC  
59501 AGTAAAGCAGAACAGTGGCTTATTATTTATTTATCTACATCAACAGAGCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
59601 TCGGTGTGATCTGGCTCTGCT  
59701 TTGCCAGGCTGGCTCTGCTACCTCTGGCTCAAGTGTGACCTGGCTTGGCTCCAAAGTGTGCTGGGATTAACAGGCTGATGCACTGTGCCCCAGCTGAA  
59801 CTGGTCATTAGTGGAGAACAGGACTCTGGCTGAGGAGATCTGGCTGAGGAGACTCTGGCTGAGGAGACTCTGGCTGAGGAGACTCTGGCTGAGGAG  
59901 AAATAGTCGGACCTGATGCTTAATGCTGGCTTCAAGGAGACTCTGGCTGAGGAGACTCTGGCTGAGGAGACTCTGGCTGAGGAGACTCTGGCTGAGGAG  
60001 GTGATTACACCACTGCACTGGGCAACAGATAAGACCCATCTAAACAAAACAAGAACACCTGGAACTGGGTGATAGGCTACTCTAG  
60101 TCAGTATGATGATCATATTGTTACTGAGGAACTGGGATTAAGGTTAATGAGTTACTGCTGAGGCTTCTGCTGAGGCTTCTGCTGCTGCTGCT  
60201 GGATCTGTTAAAGCATTCGGGACAGGAATTCTAGTACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
60301 TCCAATTCTGAAAGAGGGACTTCCAGTGGCCCTATATCAGATATTATAAAACACAAGAAAAAAATTAAACACATTCAAGAACATACTCTACCA  
60401 TAGTTTATCTGCTGAGAACAGGAGACTCTGGCTACTTGTGAGGAGACTCTGGCTGAGGAGACTCTGGCTGAGGAGACTCTGGCTGAGGAGACTCTGGC  
60501 AAAGATGCCATTTCGGAGAACACGGCATTCGAAATTCTGCTTAAAGGAGGTTTCTGGCTTCAACGGCTGAGGAGACTCTGGCTGAGGAGACTCTGGC  
60601 ACATATTTCACCTACTGAAATTGTTAAAGATTTCATGAGAGCTGTTAGTGGTACACTACATACATCGCTGGAGAGTTAAAAAATAGCATGGCATC  
60701 CTTTTTAAACAGCTGCTAGATCACATCTGAAATTCACTACAAATTAAATTGTTGGCCAAAATAGATAATTCTTCCACATGAACTGTAATTGGCAA  
60801 GTTCTAAACAAACCTCTGCTAGTGGGATTACAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
60901 TTGTTCTTTAACGACTCATATAACCTACTATCTCATAGGGATTAAAGAAGTGGAGATATAGATACAGATATAGACATATTGTTTGTGAGCAGAGCTC  
61001 ACTCTGCT  
61101 GACTACAGCTGGGCAACCATGCT  
61201 GGTGATCCACCATCTGGCTCCAAAGTGTGGGATTACAGATGTGAGGCACTGAGGCCAGCCAAGAAGTATAATTGTTTTGAGACGGAG  
61301 TTGCGCT  
61401 CTGCCCTAACCTCTGCT  
61501 GCTGGCT  
61601 MNNN  
61701 GCTGGCTCAAGGGCTGTAATCCGACATTGGGAGGGAGCTGGCTGAGGAGACTGGCTGAGGAGACTGGCTGAGGAGACTGGCTGAGGAGACTGGCTGAGGAG  
61801 CATCTCTACTAAAAATACAAAATTAGCCGGCGTGGTGGCCATGCCCTGTAATCCAGCTACTAGAGAGGCAAGAGCATGAGAATCAGTCAACCCAGGAG  
61901 GCGGAGGTTGGGGTGGGGAGACGGCACTGGCACTCCAGGCTGAGCAATTAGGCAACAGGAAATTCCGCTCAGGCTGAGGAGACTGGCTGAGGAG  
62001 CGGGTGTCTGCT  
62101 ATCTCTACTAAAAATACAAAATTAGCCAGGTGCT  
62201 AGGGGGAGCTGGAGTGGAGACGGAGACTACACCCACCGCACTGGCTGAGGAGACTGGCTGAGGAGACTGGCTGAGGAGAAATGGCTGAGACCCGGG  
62301 TCCGTAGAGACAGCTATAGTTAAAGTGTGCTGTTGTTGACTCTATTCTGTTAACTCAAAATTGAGTTATTCTGTTATTCTGTTATT  
62401 GAACTTTATTAAAGTCTAAGCAATATCAGTGTAAATTACAAAATTGAGCTTCTAAGAAATTCTGCTTTCTAAGAAATCCCTTTCT  
62501 CTTCCAGGTAACAAATATCTGGAGACTAGACCAACCAAGAAGGCATTGATGTAAGACAAGAGCTACTGAAATTCCATTCTGCTTACTATTCTACCA

exon 5

exon 5

FIG. 2J

Heller Ehrman White & McAuliffe, LLP

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**Title: Genes and Polymorphisms on Chromosome 10 Associated with Alzheimer's Disease and Other Neurodegenerative Diseases**

**Neurodegenerative Diseases**  
Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

62601 ACTTAAATGGCTGTTCTGTCTTAAAGTCGAGGTAAGAACCCCTACAATTCTTATAGAAATTGGATAATATAAGGTTTAAATGTTGCTTTTCACAGTGT  
62701 AAAGAGATGGATAAAGATAGAGCTCTTATGTCGACATCTTGTAAAATGATCTACTGTTAGAGAACATAGTGGGGGATTTTATGTTAAATC  
62801 ATTGCTGTCCTCCAAAAGAAGTTAAAGGAGATCTGAAAAAAATACAAATTAACAGTAATAGGTCCTCAAGCATATAAACAGCACCGGAGCAG  
62901 TGGGCAACATAGTAAGATCCCTGTCCTACCAAAAAAAATTCTTAAATAGTGGGATGTGCTAGTCGACCTCAGTCTGCTAGGGAGGCTGA  
63001 AGATCCTGAGGCCAGGATTAAGGCTGCAGTTAAAGGCTGTGATCACACCAACTGCACCTCAGCTGGGTCAGAGAGATCTCATATAAAA  
63101 AAAAACACACAAAAGAACAGATTGGCACATTGACCTTAAACAACTTCAACAAAATGAGAAAAGACATGATATAACCTGGGAAACCAT  
63201 TTCCAATGTAACAACTGGTTGATTTTAAATGCAAGATTAACACTAACATTGTTCTCTGCTTAAATTATCACACTTTGTGTTGAAGTAACCCA  
63301 CTGCCGAGTGGTGTGCTTTTATATGGTAATGATGGTAACTCTAGCTCTTCTGGAGGCGACTTAAACAGTCTAGCTTAAAGATG  
63401 CATTTTACTTTAAACATCAGGAAATAACAGATCTAACAGGATATAAAAGGATCTTCTGCTCATATACTACATATTAGCAGAAAAT  
63501 TAGAAATCTAAATGTTAATAGGAGAATGGCTAAACTCTGATTTTATAATGCAAAATAGAAATCTTATAGAAAAAAATAACATTCTTACTTCCAT  
63601 CTTACCTGCTTTCTTATGATTTAAACTCCTGGATTAATTAATTTGTGTTTGTGCTACCACCTACCAAAAGTAAATTACTGAGGATAAGA  
63701 ACTTGTGTTGTTGTCAGTCTGTTTACATCCTAGCTCTGGCTCTGCTGCACATTAGGTTAAATATATTGATGAAACAGTTTATGAGCAGCAT  
63801 TTTAAATACCATGGGAAGATACTCTTAAATATTTCTCATATATGAAATATGTTCTTATGTCATATAACAAACATTTTAAATTAATATGTA  
63901 TATTATATATAAGATAATAATTTTAAATGTTCTTAAATATAAAAGGAAACAAACAGCTGTTTACAAACACATGTCATATGGCTTCAATTGGG  
64001 TTTTAAAAATCTAACAGACATACCCCCCAACAAAATTTTAAACACTCTAGGCTCAGGCTCAGCTTACACTGTAATTCCAGCACCTGG  
64101 AGCCCGAGGCGAGGTGGATCACTGTGTCGAGGAGTTTGAGACCCAGGCCAACATGGGAAACCCCATCTCTAAACAAATAACCCGG  
64201 ATGGTGGGGGCCACCTGGTAACTCCAGCTAGTTGGGAGGCTGAGGAGGAAACTCACTGAAACCTGGGGCTGGAGGCTGAGTGAGC  
64301 CTCACTCCAGGCCACGGGACAGTGGACACTCATCTCAAAACAAACAGAACACAAAACACCAAAACTCTAAATACCATATATGGTGTAGGTA  
64401 AACACAAAATGAAAGACATCTACTGAAATTAAATGTTGTTAGTAAAGAACATCACCTTCAGTCCAAACCTGGCTTTCATCTTCAAAAT  
64501 ATACCATCTTACTAGCTGTGCTATGAGCTAACAAACTCTAGTTTCAACACTTGTGTTTCAAACTCTAGTTTCAATTTGTTGCTGAC  
64601 CTGTGTGAGGTTAAATGGAGATAATACAAAGTGTGTTAGCAGGTCATGGCACATGAGCAATGTCCTACAAACAGTAGTAGGCCACT  
64701 AATCATGAATATTGTAACATTGGTACCATTAATTAGCTTTCTTCAAGTGTGTTCTGCTATTGCAAACTTCACTTATAGGAAATAAC  
64801 TTTTAACTATGGTAGCAAGAACCCAGGGTAAATGGATTAGGGACTGAGGACAGCTAAACAAAGCATACTCTGTATGCTGTTGCTTCAGG  
64901 TAGGTGGGTTAGATGTTAAATACACTTGCTGTTAGAACCCAGTCCTGGGATTAGGTGCAAAAGCTGGGTGTTTTTTTTTTAATCTATGTT  
65001 GTATTGTGAGATAACACATCATTCTAGTAAACATTAAATAGGCCAACTAACATGGAATCAACCTGATCTCTGCTCTGCAAGATGTTCTG  
65101 GTTACTGGAAATGACAGATAAAGATCTAAAAATAAGTGTCTCAATTCTCTGATCCAACTACATCCTCTCCATTGTAAGTCTCTGCT  
65201 ACCAGAGAGAGATGCTTACAGTATAGAGGTATGAGGAGAACTGGATCTTGGAGGATTAAAGATAATCCACTCTTCTTGTGACGGAGAG  
65301 AAGGAAGCTAACATGGGAAAGCTCTGACAAGGCAACAAAATTCTTCTGGCTCTGGAGACTGTCCTCTGAGTCTGGGAACACTAAATT  
65401 CTGAAACATGGCCACATAGCTTACATCAACTAGACACTGAGGTTGCAACACTTGTGATGATATAAGGTTGAGTGGACTCAGTCTCTG  
65501 GAGCTCACAGTTAGTGGGTAGACAGACTGTGCAATAGTGTGTTAGCTCCCTACCTTAAAGACTGACACTGTGAAATTATGCTTTAGG  
65601 CGCAAGAGGAAAGATCACCTGGTAGAACCTTCTGCTCAGGGTGTGCTCACCGACTACTGAGGCCAACACCTTTATGACTCTCTGCT  
65701 GTCATATGTCCTACATGTCAAAAGAATGCTCTGACATCTCTCTGCTCATATACTCTCTGATCATATAAGGCGACCTGACT  
65801 TCTGCTCTTATTGGCTCTGGACATTGGAGTCCTTACATAGTCAAAAAAATGAGGCAAAGTAGGTATTTTATAAAATGCAAATGCC  
65901 ACACTTAAAGGCAACAAAAGGAAATTCTACACATATAAGGCACTCTCAAAATGCTTACTGAGTCTGGAGAACATTGAGGAAAGTCC  
66001 ATAGAATATGAGGCAAAACTCTTATGTTGACCTAAAGGCTTACAGCTTGTGAACTTGTGATATACCTTATGAGGAAATT  
66101 ACAGAACTCAAGATGAGAGGTTATCTGTTTATAAAAGACAGGTTTGGCCAGGCATGGTGGCTCACACTCTGTAATTCCACACTTGG  
66201 AGCCGACATCTAGCTGAGCTGGAGTTGAGACGCCAGCTGGCTCACAGCTGAAACCTGTTCTCTTAAATGACTCTGCT  
66301 CACCGCTGTGAACTCCAGCTACTGGGGAGGCTGAGACATGAGAACATCTGGAGGAGCAGCTGACTCTGGGATTGTGCCACT  
66401 AGCCTGTGCAACAGAGCAATACCTGCTTCAAAAAAAAAAAAGTTTTTTTTTAAACACTGCTTCTTTAGGATAATAAGTAAATTG  
66501 ACAAAATGGAAAATTAATTCACACAGAGAATTTAAATAAAACAGCACTCTGTTTACATGCTTACATGAGGAAATT  
66601 TAATCTCATCTTGTGTTATCTTACATGAGGAAATT  
66701 CATATGTTGATATGTTGCTATATCATATGTCATATGTCATATGTCATATGTCATATGTCATATGTCATATGTCATATGTC  
66801 TGCTGCTATTATCATACATGAGATGTTGATATATGTCATATGTCATATGTCATATGTCATATGTCATATGTCATATGTC  
66901 ATATATGTCATATATGTCATATGTCATATGTCATATGTCATATGTCATATGTCATATGTCATATGTCATATGTC  
67001 ATAAAATGCAAAATACATTAAAGGCAACAAAAGATAATTGTTACATGAGGAAATT  
67101 TAGTTGAGTATATGCTGCTGGGAATCATGTCATTCTTCAAAATGCAATTATTGTTCAATGAGGTCACATTATGCT  
67201 ATATAATTGAGAATATTGTTGTAATATTGTTGAGAATATTGTTGAGAATATTGTTGAGGTTGAGGTTGAGAATATTGTTGAGAAT

exon 6

67301 TTTTCAGGAGATCCTAAGATTTAACCACTCCCTGTGGATGTTATGATCGCTTAAGTCTGTTTCCTTGCTCTGTTCTTGTAGAAATCTTAGATGA

exon 6

67401 CTTGACTAATCTGGTGGTAAAGTTATTTCTGAAGTAGAGAACAAAATGTTCCATTGCCAGAACTTCCTGAAACACCCTTCAAGAACACATCTAA  
67501 CTAACTGCATAAAATTCTGGTATTTCGTCCTTAAATTTCATGGCACAATATACTACCTAGTTTACCATAGAACAGGTAAATTTCGGGGTTCTTACATT  
67601 TTATGTTGTGTTTTTTTTTTTTGGAAACAGACCTGTCATTGTCACCGGGCTGGAATGCTGGTGGCAGTCATGCTGTCCTACTGAGCCTCACA  
67701 TCCCTGGCTGAATTGATCCTCCCACCTCAGCCTTCTGAGTAGTGTGGGACTACAAGTACACACTACCCACCTGGCTTAATTTTTGATTTAGTAGACAC  
67801 AGGGTTTACCACTAGTGTGGCTGACTGATCTGCAAGTACCTCTGATCTCAAGTGGCCCACTCTGCTCAGCCTCCAAAATGCTGGGATTACAGGCGTGAGCAC  
67901 TGCACCCCCACCCCCATGAGTTTGTGTTTGTCTTGTGTTTGTGATCTGAGCTCTCACTGTGTCAGGCCAGCTGGATGTCAGCGC  
68001 GCGATCTGGCTCCCTGCAACCTCTGCTTCCAGGTCAAGCAATTCTCTGCTCAGCCTCTGAGTAGCTGGAACATTAGGTGCTACGCCACTGTGCT  
68101 GCTAATTTTTGATTTAATAGAAATGGGTTTACCATGTTGGCCAGGTGGACTCTGGCTTCAAGTCTGGCTCAGGTTGATCTGTCCTCCCTGAGCTCCA  
68201 AAATGTCGGCAGATTATAGGTGTGAGCCACCGGCCCGCCCACTGGCTTAAATATTCTGGGATAATAAAATCAATCTCACATTATTAGGATCAT  
68301 GAATCACCAAAACATATCAATATGTTCTGTTCTGTTACATGCTAAAGTAGTTTGTGCTGAGTCTGACTGTTAATAGACTGTTGAGCTGTTAACCTGTG  
68401 TGAGATTAAGGCACTTCAAAACATTAATTATTTAGTCGTCAGTGGTTCAGGGGCTCAACATGAGTATATACTGGACTGTAATGAAATTCTCAGTAGGAGTGC  
68501 TGAGTCATTATTCTTCTGGTGTGTCAGTGTATCATTTCTGTGGCAATTGATTGCTCTTAAATTGGGATTCCTCCATGAAAATCATTTCTCATAGTTA

### exon 7

FIG. 2K

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

68601 GAAATTTCTTCAGTAGGAGTCGTATAGCTAATCTCTGTGATTGTCTCCAGCAACTTACAAAATAGTACCCATTAAAGATATTAGGAATCT  
exon 7

68701 CTATGTGACATTCGCCATACCTGACCTTCAGAAATACTACAATCAAACTCTGGTCATTATCTGGTCATCTCATGGGCATGAAGGTCTGGAAAGTCG  
exon 7

68801 TTATCAGAACTTAAGTCAGGGTAAGTCTCTGGCAGCACATCTGTGAGTGTCACCACATCTTCACTCTGGCTCTCATTTCTCCTGAATAGTGTC  
68901 TAGAGAACGGGACATTCTGGGTTAGTAGTGACCTGGGAGGGTGTGGCAGCTGGCTCTGGGCTCTGGGCTCTGGGATTAGAGGCG  
69001 TAGAGATGGGGTCTGGCCATTTCGCTAGGGTAGTCTCAAACCTCTGGCAGCTGGGCACTTCTGGCCTCTAAAGTGCCTGGGATTAGAGGCG  
69101 GAGCCACCGCGCCAGCCAGTAGTCACTCTGACTGGAAATTGAGTTGAGGAATTCTCAGGGAAAGCCCCACTCTGCAACCATCTAAACTGCTTCT  
69201 GAACTGATTTTTTCCCACATCTTCGCAAGAGGTTCACTCTGATATCTAGGAACATACAGTGAATTAAAATTTCTTATCTCAAGGAAG  
exon 8

69301 CCACATATGCAATCAATCGTATTGATTCCCTTGAATGTTGAGGCTGGTTAAATACTCTGGTGGCAGAAGGAAGGAGCCGAGGTTTATGTTT  
exon 8

69401 TTTATCATTAATGTGGACTTGACCGAGGAAGGATTATGTAAGTATTGATTCACCTTTTACTTTGAATGAAAATTACTTCTATGATGTTTTAACT  
8i.D+149 C

69501 TCTTCATGCTGAGATCTGTTTATGTTGAAAGCTACAACACTTAAATTCATACAACCTTACATGTTGATTTTCTATATGTAACCTGGCCCTTGTCT  
69601 GGATGATTCTCCCCCTTAACAACGATGATCATTTATGTTGACTTGTAAATGTCGACTTGGCTTTTATTTGCTCATTAACCTGGCCAAACACCCCTTC  
69701 TCACATATCTGAGGCCAGAGGGCATGTATGTTGAGGACACGTAAGCCAGTCAGGGAGGTGAGGACTGATTTCTAAAGAGGGACCATCTTCACT  
exon 9

69801 ATCTGACTTTACCTTAGGAGTGAGCTCACTGCTTGAAGGATTCAAGGACTGAATGGTTTAAAGTGTGCCCTTTTCCACTACATGTTGAAGATA  
exon 9

69901 ATTTTGACATGTTCAATACATTAGAAGTACAGTCAGAGGACCTCAAGAATGGTTTCAAGAGTGCAGAGTACTTTGTTCAACCAAAATTTT  
70001 CTTAAGGAATCTGTTTCAAGAGCAAATCATGTAATTAAATTAAAGGCCAGTTAAACTGTTTCTCTAAAGTTTCTCTAAACTGAAAGTCTAAAT  
70101 TTGCAATGTTAAATACTATTAGTTAAGGCTAGTTGACTAGTCTGATTTCTGGCAGCTGGCACAACTAAGGGAAAGGCATCGTGTAGCCCTTTT  
70201 GATGGAAAGGGAGAAATCAAATGCTTTCCACTCACTAGAAGAAAATCAGCAGTTCTGACTGGAAATATGTCAGGGATTATGTTACTCTCTGGCT  
70301 AAGCTGCAATGAGCTCTGCTGTTTCAAGATCTTAAATCTGTAAGCAACTCTAAAGAAGTAATGAAATTGCTTTATGTTGATTGTTTAAAGTGT  
70401 TTATTTATGTTGATGTTGAGGAGAGGGCTGGCTTCTGCAATGTTGAGCTGGGCTTCAATTAAAGCTTAAATTTGCTTCTGCAATTAAAGCCTT  
70501 TAAAAATACGTCCTTAAAGCCTATCGAGATCTCAAATGTTTTAGTATGAAACATCTTTTAACTAGATAAAAGTTAAAGGATAATCTC  
70601 TTCTGAAATTATGACAATAACTCTAAATCTGGGTGCTGTTCTGCAATGACTCACCACATCTGTTGAAATTGTTGATCTCACAAGGTTCT  
70701 CACAGCTTCTAAATCTGGCTTATGGCTTACACACTGGCTATGAGGCTATCTGTTGAAATTGTTGATCTCACAAGGTTCT  
70801 TTGCTTTGGTTAAAGCTAGATTGATGTTAAATTTACACATTAAAGGTTTAAATCTTACATCTAAATCAAGCATACCCATT  
70901 TTCAAGAAAGTGTGATAAAAGTTAAATGGAGTAGAAAGCTTATGTCAGCCAAACACTTAAAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG  
exon 10

71001 TCTAATTGGATTAACCTCTATTTAGGACTTGAAATGCTGTTGCTTTAGGTTAAAGACAAAGAGGCCACGGGGCTACATCTAAAGATTGAGGAA  
exon 10

71101 TATTGCGATGTAAGTTGTTGTTATTTACTGTATACTGCTGCTGGAGTATTCAGCACTTGTGATATTTCACTGAAATAGTGAATGATTACAAT  
71201 TGAAAGCTGAGGTATAAAAGCTTCAACTTCTGAGAACAGGCCAAATCTGAGTCTCAGGAGATGTTAAAGCTTCACTGAAATTTT  
71301 TATGTAATTTTAAATGTTTAAATATGCTTCTGCTTAAATATTCAGCTTCTGCTTCAAGCTTCACTGAGTCTGTTACTATATGAAAGCTATTGATCA  
71401 TTACTTTTAAATTTCTGCTTCACTTCTGCTTCACTGAGCTTCACTGTTCTGCTTCACTGAGCTTCACTGTTCTGCTTCACTGAGCTTCACTG  
71501 CCTCTTGCTCCCCATTGCTAGTTTATTTCTCAGGCTCTGATCTTGTGAAACTAAACATGAAATGTTTCACTCTCTGTGTTAAATCTCAGTGGTT  
71601 CCCAACAGAGTTGGCATAAAATGCAAAATTTCTTCTGCTTCAAGGCTCTGATCTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCT  
71701 CTCCCATTGCGATCTTCACTGACTGGCTCTCAATTTCAGCAAGCTTAAAGTCTTCTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCT  
71801 TATCTGATCTTCTGCTGCTAGGTTCTTATCATTCTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCT  
71901 GCCCTTTTTTATGTTTCTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCT  
72001 GGACAAGGATTCTGCTTCACTTCTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCT  
72101 GAATCAGTCAGTGTGTCAGTATTGGAAGTTGCTCTACCAAAAGCATCTCTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCT  
72201 TTCCACAGCCGCTTCTAAATGTTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCT  
72301 TGTAGGTGTCAGCATTAAATCTGAAATTCTCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCTTCACTGCT  
72401 CTCTCTACAATGGAAGTATGTTGGGATTAAACGTATATTGGCAGAACTACAAACATGAAACTGCTTAAACATGTTGAGGAAAGAGACAACGA  
72501 TTAGGGCTACAGAAAATTTCTCAATGGAGTAAATTAACTGAAAGAGAGAAAGGGTCACTGAAATTAACTGTTACAGATCTGCTTAAATAA

FIG. 2L

Heller Ehrman White & McAuliffe, LLP

Sheet 15 of 113

Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

exon 11

72601 ACTATGTTAGCTTGATATTATTTATTTTACCCCTAGAAGAGGTGCTCACAGCGGAATTTACTGGAAAGAA

exon 11

72701 TTATGAGCTGACTTAATAGAGATGTTCTCGATAAACTCAGACCAGAAAATGTCGGTGAGTCACCATACAGATTAACTATTACACTAAATTTCAA  
72801 TAATGATTTAGAAATCTGAAAAAAATTGTAATTTAATTTAATCTACCCATCCCTCTCAGTCATCCCCCTCCACCTAAATTATTGAGGCAATATCTC  
72901 CAAGCTTCACCAATTGATACATGCCAGCTTTTTAATCTACCCATCCCTCTCAGTCATCCCCCTCCACCTAAATTATTGAGGCAATATCTC  
73001 TAAAAGATGAGGACATTTTAAACAAATAATTAAATCTACAAATAAAAGATAAATACCTGCTTAACTGCTTAACTCTAAACTCAAACGC  
73101 CCAAAGTCTGAGGACACCTCTGCTCATAAAGCAATGAGGCCACCTTTCTTAAAGCCACAGTAAAGATACAATCTCAGAATCTCTGATT  
73201 GACCACTGTTAACCTGGAATCAAAGTCAAACACTTATAGTCAGAGGTATTCTGTCAGAGGAAAGTAGCTTAAAGTCTGAGGCAACCCAC  
73301 ATGATATTCCCTCCATAAAACTGAATTTCATCTATGTTTCTAAAGTCAAATGATAGAGGAAATAATTGATACATGTTTACATTTTAAATTTC  
73401 TCCTCTGTTAGGAAAGTATTGTAATCTACTGGCAATTGTTGATGTTTCTTGGAAACAGTTGTTTATGAATAAGATCAACAAATCTGATA  
73501 GAACTTTTGTAACAAAAAAACTCTTTGGCTGCGGCGGTGCTCTGCTGTAATCCAGCAGTCTGGAGGCCAGGGGGATCAGCTGA  
73601 GGTCGGAGGTCTGAGGACACGCCGACCAACATGGAAAACCCCGTCTCTAATAAAATAACAAAATTAGCCAGGATCTGGTGAACATCCAG  
73701 CTACTCGGGAGGCTGCAACAGGAGAATGCTGTCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG  
73801 TGAAACTCGCTCTAAACAAAGTCTTTTGACAGAACTATCCTATCAGAATCTTCTAGTTTACATTGTTGAACACTTTCCAGACATAT  
73901 TATCAAAGCTTCATTAGCGATAATTGACATATATGACTGCTACTGTTAGGTTGAGAAACAAATAATTATGCTTCTAATGTCAGGTTGGCTTG  
74001 GCCTATCATTTGTCATCTCCAGGTTGGGACTCTGGGACTTCTCTAGGAAATCTACTGACCTGACCTCATGCTAGGATTCTCAG  
74101 CTAAATATTCTTTGGAAAGCCAAGCAGAGGAGGATCAGTACTGAGACTTAAAGCCAGCTGAGCAGCATAGTGAACACCTATCTGATTT  
74201 TAAAAGTAAATGATTTTTATATTATGATACATGTTGGTAGAGTACAGATAATTATGACTCTTAAAGAACAAATTTTTATAGAGATAGGGCTC  
74301 ACTGTTGCCCAGGTGGATCTCAAACACTTCTGCCCTCAAGCAGTCCGGCTTAGGCCACAAAGTCTGGGATTACAGCGTCGTGAGCCACTG  
74401 TCTAGAAATTCTCTCTTTACTGAGCTAGAATTAAATGGAATAAGTACATGTTTGGAGTTAAACAAATATTTAAAGGGTCAAAA  
74501 TTAGAAGTCTTTCAATGAAAATAACATGTAATTAGGAAATTAAATTTCTGTTGAGGTACCCAGTAGGTTAACATGTTTCTACCCAGITTT  
74601 CCTGCAATATTAAAGTCCCAATTATTGCTTAATCTTAATTAACCTCAAGGATGATTGATGACAGAACTTACTGAAAAGACTAGACAAAGTACT  
74701 GACAGCTGTGAATTCTAGAGATTGCTGAGTTGATCATCTGCTTAAACCAAACTGCTTTTCAACTCTAGATAATTACTGAGGAATTGAAAAAA  
74801 CGAAGAAATCTCTTCCATTGACTGAAACACAGAGAAAGTGTAGGTTAAAGTGTAACTGTAATATGTTAAGGTTATTCATGCCCTGAGCTG  
74901 TTAGTGGGGATGGCAGAGATAGTCTACATAATTAAATGTTTAAAGTGTAACTGACTGACACATAATTGCAATATGTAAGAAAATCTAAC  
75001 CTACTTCCCTCTAAACAAACTGAACTAAGTAACTGACACTGACAGCTCACAGGTCAGGCAACACATAACTGCAATATCTATATAGC  
75101 AACAAAAAAATGAAAATTAAAGAGTATTATAAGCAACAAAGCATATAATTACTAGGAATGAGTTAACCAAAGATAAGCAACACTTACATA  
75201 AAAAACAAACAGTGAAGAGAGCAATATTAGCGAGAAAATGAGGAAAGCCTAAATAAATGGAGAAGCATACTATGCTACATATTAGGAGACT  
75301 TGATATTATAATGTTGTTCTCCAACTCTGATCATAGACTCAATGTAATCAACAAATCTGCTAGGCTTGTGTTTCTTTTCTTTTATTCA  
75401 TTGTTAGAGACAGGGCTTGTGATTGCAACCCAGCTGGACTGTAGTGGCGGGATCTAGCTACTGACGCTTACCTGCTTGGGCTTAAGTGTCTCC  
75501 TCGCTGAGCTTCTGAGTAGCTGGGATTATGGTGAAGCAGGACTATACTCTGTTTTTATTATTATTATTGAGGTTTCATTCTGTCACCCA  
75601 GGCTGAAGTGAATGGTCAATCTCGGTTACTGCAACCTCCGCTCCAGGTTCAAGCAATTCTTACCTCAGCCTCTGAGCTGGGATTACAG  
75701 GCACCCGCCACACCTGCTAATTTTTATTAGGAGAGATGGGGTTTACCATGTTGACAGGCTGGCTCTGCAACTCTGACCTCAGTGTGATCC  
75801 GCCCACCTGAGCTCCCTCCAAAGTCTGCGGTTACAGGGCTGAGTCACCGGCTTCTCCGGCTTTTTCTTCTTTTTAGACGGAGTCTCGCTGTG  
75901 TCACCAAGCTGGAGTGCAGTGGCCAACTCTGGCTACTGCAACCTCCACATCCAGGATCAAGCTTCTCTGCTCAGCCTCCCGAGTAGCTGTAAC  
76001 CACAGGACCGCCACCATGCCACGCTAATTGTTGTTAGTGGGATTACAGGGCTGAGCCAATGACCCGGTTTCTGGCAGGATGCTCAGTCTGTA  
76101 TCTGCCCTACCTGGCTTCCCAAGTCTGGGATTACAGGGCTGAGCCAATGACCCGGTTTCTGGCAGGATGCTCAGTCTGTA  
76201 TGCTCTGTTGGGGCTGGAGTGCACACTGCTCATCTGGCTACTGCAACCTCTCTCTGGGTTAACGCAATTCTCATGCTCAGCCTCCAAAGTA  
76301 GGTGGGATTACAGGCATGTCACCAATGCCACGTAATTTTTAAATTGTTAGAGAGAGACTCTACTATGTTGCCAACATTAGTCTGCAACTCT  
76401 GAGCTCAATGATCTCCCAACGCTGCGCTCCAAAAGTGTGGGATTACAGGGCTGAGTCACCTGCGCTACTGCAACCTCTGCTCCAGGTTCT  
76501 TTTTTTCTGAGCAGGAGCTCTACTCTGCGCCAGGCTGGAGTGCAGTGGTGGCTACTGCTACTGCAACCTCTGCTCCAGGTTCAAGGGTTCT  
76601 CTTGCGCTAGCCCTCCAAAGTAGCTGGGATTACAGGGTTATGCCAACACGCCACCTAATTGTTGTTTCTGAGTAGAGATGGGGTTTACCATGTTGCC  
76701 AGGCTGTTTCTTCTTCTTCTGAGGAAATTGCTGTTTCTGAGGACATTGAGGACATTGAGGAAATTGAGGACATTGAGGACATTGAGGACATTG  
76801 AATAGTGGGAGGAATTAAACACTAGATTGAGGACATTGAGGAAATTGAGGACATTGAGGACATTGAGGACATTGAGGACATTGAGGACATTG  
76901 TCATTGGAAAGAACAGACTCCAGATATGTTCCACACATGTCAGTTGATTTTTGTGAAATTAAAAAAACACTTCCCTTTCTCTGCTT  
77001 CTGATAATCACTATTCTACATTCTGTTCTATGGGTTAACTACTCTGCAACTGACAGGATCTCCCTTCTTAAAGCTTAAGGCTAAATAGTGTCTCAT  
77101 TTCACTACTATAATGTTCTCAAGCTCATGTTGAGCATATGCAACCTCTTCTTAAAGCTTAAGGCTAAATAGTGTCTCATATGATATAC  
77201 CATATTCTTCTTATGCAATTCTCATCTGCTGAGTTGGGGTTTTTTTTGGAGATGGGTTTACTCTGTTGCCAGGCTGGAATGCCATGGTGG  
77301 TCTCAGCTACTGAAACACTCTCCGAGGTTCTCCAGTGGCTCAGGGCTGGCTCTGCAACTGACCTGACCTGAGGTTAACGGCAGCACCACATGCTGG  
77401 AATTGTTATTTTAATAGAGACGGGTTCTCCAGTGGCTCAGGGCTGGCTCTGCAACTGACCTGACCTGAGGCTGGCTCCAAAGTG  
77501 CTGGGATTACAGGCATGCCACACTGCCACGCTGAGGTTTACATTGAGAAGAGCATCAACATAATTGAGAATGGAAAATCTTCAACAAA  
77601 TGGTGCCTTCTACTAGCTGCTATCTGTTACTGAGGAAACTGCACTTGGCTACTGAGGTTTACCTGAGGTTTACCTGAGGTTTACCTGAGGTTT  
77701 ATAAACACTAAATCTATAAAACTCTCCAGGAAATTGAGGAAACTCTGAGGAAACTGCAACTTGGGCTACTGAGGTTTACCTGAGGTTTACCTGAGGTT  
77801 CCACTAACGAAAACACATTGACCGTGACAGTGGTACACCCATAATGCCACCTTGGGAGGCTAGAGGGAGGATTGCTGAGCTCAGGAGTTCGA  
77901 GACCAGCTGGCAACATGATGAAACACCTCTCTAATAAAAGTAGCAGGTTAACGAGGTTTACCTGAGGTTAACGGCAGCACCACATGCTGG  
78001 GAGGCAAGGATCACTGAGCCAGGAGGTTGAGGAGGTTGAGCAGGTTGAGCCATGATACCAACTGCACTCCAGCCTGGCAACAGGGTGA  
78101 AAGAAGGCTGGGTGCGGTGCTATGCCATAATCTGAGCTTGGGAGGACCAAGTGGGTGAGTCACCTGAGGAGGTTGAGGACTTCAAGGACCCCTGG  
78201 AACATGCAAAACACTCTACGTTGAAATTCCAGGTTACCTGAGGAAACTGCACTTGGGAGGCTAGGGAGGAGAATCGCTTGAACCTGGGGCCGGAGGTT  
78301 ATCATGCCACTTGTACTCCACCTGGCAAGGACAAACTCCATCTGAGGAAACACATAATTGAGGAAATTGAGGACTTACATCAATATTAAAACC  
78401 GCTCTTAAGTGTACATGCTTACATCTGAGGAAAGTAAACAGTTAAATATTGTTTACTTACTGCTTACCTTACCTTACCTTACCTTACCTTACCTT  
78501 TAATTGTTACTTGCTCATTTAGGCAAGTAAACAGTTAAATATTGTTTACTTACTGCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTT  
78601 TTGAAATTATTATCATATAACCTTCTACAACAAACACCTTACCAACATGAGGAGAAAGACTATAGATTACTAATAGAACTTGTAGACAATCTGTTTTC

FIG. 2M

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

78701 CAGGTTCAAGCAATTTCCTGCCTCAGCCCTCCAGTAGCTGGGATAACATGCACCCGCCACCATGCCTGACTAATTTGTTTGTCTTGAGATGG  
78801 AGTTCCGCTTCTGGCTTAGGGCTGAGCTGAACTGCTAACATGGGATCTGGCTCGCCACCCGGGCTCAGACAATTCTCTGCCCTCACGCCCTCCC  
78901 GAGTAGCTGGGATTAACAGCTGCCCTGCCACCCGGGCTGAGCTAACATTGGTATTTAGTAGAGATGGGTTTGCTATGTTGCCAAGCTGGCTCGAAC  
79001 TCCCTGACCTCAGGTGATCCACCTGCCCTGCCACCCGGGCTCAGAGTGTGGGATTACAGGTGAGGCCACCATGCCGGCTGTATTTTTAGTAGAGACAA  
79101 GATTCTACCATGTTGGCAGGCTGGTCAAACCTCTGACCTCAAGTGTGGGATTAACAGGTGAGGCCACCATGCCGGCTGTATTTTTAGTAGAGACAA  
79201 TACCCGGCTCAGTACAGAACATTCTTAAAGATTCTCCAGTAGTAACTAATTGGTCTGGTCTTGTCACTACTAAGTCAAGGATCTTGATACATCATTT  
79301 TTTTCTTCATGTTATTGAATCACTTACGTAAACCTCAGAGTTGACAGTCTGAAAGGGGACTGTGAAAAGTTAACCTTATATAATGTCATGAA  
79401 ACTGGCTGTCATTTCTGGCTAACAGTGGGATTAAGTGTGCTTATCTGTATGATGAAAGTGTGAAAGCTAACAGTCAAAGTCAAAGTGTG  
79501 TGCTAACACACAAAGGTAATGCTATAAACTATACCTATATAAGGATGTTGCTTATCTGTTAGGAGTGTGATTGAGCATATGTTAACATTGAA  
79601 TGCTGCTCTAGAGCCAGTAATTGACCCAGAACACTTCTGAGGAGTGTGATTGAGCATATGTTAACATTGAAATGCAATTCTAAATTGAT  
79701 ATCTTATGCAATTAAACCTCTTCTACCTACATTAAAGAGAACACTTCTGCTGACTGTTAACAGTGTGACTGTTAACAGTGTG  
79801 AGTAGGTCAAGTCAATGTCAGGCAACACCGCTGGGATAATTGGCAGGCGAGAACAGAGTGTGGCTCAAGGTAAGATTACCTCTTAAAT  
79901 CCGCTGAGACAAGTTAACATGCAACCAGTAGGGAAATAAACAGGAAACTCTTAAGAATGAAAGGAACCTTAGAGGCCATTAACTCAACTCTGTTA  
80001 GGTGATACGGCCCTCCATATCGCAGGGCTGGTCTGGGATCTGGGATCTGGGATCTGGGATCTGGGATCTGGGATCTGGGATCTGGGATCTGG  
80101 TATGGTACTGTGATCTGCTGCTGAGTACCTCCAGCTAAGTACTTACCGCTGAGTTGCTTACCTTCTCCAGGAAAGGGACTCATTAATACAAAGGTTAG  
80201 CCAGTTTCATTTGCGAGTCTTAATTGTTAGACAATTATTGAAATTGAGACTTGTGATTACCTGTTCAAGGAGTGTGTTACCTATTACTCAATGATC  
80301 ATTGTCACCCACCTCTGATCTTACATTGGCTCTGGTCTGGGATCTGGGATCTGGGATCTGGGATCTGGGATCTGGGATCTGGGATCTGGGATCTGG  
80401 TCATAAATAATTCTTATTGGAGAAGTATTCTTAAATTGTCAGTCAAGTAACTCTGCTGAGGCTTTCTGTTCAATTGTCAGACTGCTGAGCTG  
80501 ACAGTTAACTGTAGAATTGTCAGGATCAATTCTTAATTACTGCTTATGTTGTCAGGCTTCACTCTTTTCTTTGAAAGTTACAGCATTTG  
80601 CCCATCTCCATCTCCAGTTGCTCCTCATCTCGTCTGGCTGGGATCTGGGATCTGGGATCTGGGATCTGGGATCTGGGATCTGGGATCTGG  
80701 TTAGAAATTGTCAGTTATCTGTTGAGATGTTGGAGATGTTGCTTATTCTCTTTTATTTTATTTTATTTGAGACAGAGTCTGCTTGTGCCCCAGGTGGAGT  
80801 CAATGCCACATCTCGGCTCACTGCAAGCCTGCCCTGGGTCAGGAACTCTCTGCTCAGGCTGGCTGGCATTACAGGTGCCACTAC  
80901 CACACCTGGCTAATTGGTATTGGAGATGGGTTACCTATTGGCCAGGTGGCTGCTGACCTCAAGTGTGATCCACCCGGCTCAG  
81001 CCTCCAAAATTGTCAGGATTAACAGGCTGGGAGTGGGAGGAGTGGGAGGAGTGGGAGGAGTGGGAGGAGTGGGAGGAGTGGGAGGAGTGG  
81101 TGTTGGTCCACCTTACAGTTAAAGGCCATGTTTATTCAAAGACAGGTTAAAGAGGAGTGTCTGCCATCTGTTAACATGAGATTAAC  
81201 ATTACATTGTCATAGTCATGTTGCTTAAATTAAGGAAATAGGAACTTATTTGTCATCTTCTGGAGAATGGGAGGAGTGGGAGGAGTGG  
81301 GTAAAGTCTGACTGAATTCTAACTTAAAGGCTAATCTTCTGACTTTTCTTCTGACTTTTCTTAAACAAACCTTACGGGAGGAGTGGGAGGAGTGG  
81401 TAATCCCAGCATTGAGAGGCTGGCAGGGTGGATCACCTGAGGTTGGGTTCAAGGACAGGCTGACCAACATGCTGAAACCCATCTACTAAAA  
81501 TACAAAATTACCGGGCATGGTCAGGCACTGTAATCCAGCTACTAAGGAGTGGGAGGAGTGGGAGGAGTGGGAGGAGTGGGAGGAGTGG  
81601 TGAGCCAAGGATCATGCCACTCCAGCTGCAACCTGGGAGTGGGAGGAGTGGGAGGAGTGGGAGGAGTGGGAGGAGTGGGAGGAGTGG  
81701 GCCTCAATTCTTCTGACTTTCTAATCTAATTGTCAGTAACTTCTGACTTTCTGACTTTCTGACTTTCTGACTTTCTGACTTTCTGACTTTCTG  
81801 TATCCTTTAAACTCTAATTGATCATGAGTGTGAGATTCTACTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
81901 GCGGGGCTGGCTGGGCTCACGCCCTGAGTCCAGGCACTTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
82001 GCGAAACCCCGCTCTATTAAAACAAAAGACTGGGTTGAGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
82101 CGGGAGTTGAGACCTGGGAGG  
82201 ACTCAGGAGGCTCAGGCAAGGAGTGGGAGG  
82301 GACGCCATCTAAAAAAAGCCAGGAGTGTGATGTAATCTAGCTACTATGGAAGGCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
82401 GGAGGCTCAGG  
82501 AACTGAAGTTAGAGGAGGCTAAAGGCTATGGCTCTGGCTAACCTTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
82601 GTTTCTTATGCCAGGCTGTCGCTCTTCCACTAATTGTTGAAATTCAACATTACCTATGAAAGCCTCTCTCATCTTGGACATCTTCCCTATT  
82701 CTGTTGAGGATCATCTTAAATCTCAGGAGAGTTTACTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
82801 GAGTTCCATCACCTGCCAGCTGCACTTGGCTCCAACTTAAATTGTCAGTAACTGCAACAGCTGCTGAGGAGGAGGAGGAGGAGGAGGAGG  
82901 GTTGTAAAGTTTGTAGTAAAGGTTGTTTCTCATGTTCTATTCTTCTTTCTTAAATAGAGACAGGAGTCTACTGTTGACCTTCTCTCTAATT  
83001 GGCCTTGGCTGAACTCACGGGCTTAAGGCTAACGGGACTGGCTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
83101 TTCTCAAGGATCACATCATCATCATATTGCCAGGCTTCTCTCCCCAACACTTACGGCACATTAAACAAACCTTGGGCTGGGAGGAGGAGGAGG  
83201 ATGCCCTGTAATCTGACTCTGGAGGCAAGGTGGGAGGAGTGGTGTAGGAGCTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
83301 CCAAAACAAAAAAATGGCTGGGATGGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
83401 TTCAGGCTGCAAGGATGATCACACCCAGCTGCAACAGGCCCTGTCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
83501 CTAACATGTCACATATTGACTAGTTTCTCACTGTCGCTGTTGTTGACTATAGGTGCTGACTCTAACATTGTCACCTTCTCTCTAAC  
83601 CAAAGTCTCTCTGGCTACTTCTGCTGACTTCTGCTGACTTCTGCTGACTTCTGCTGACTTCTGCTGACTTCTGCTGACTTCTGCT  
83701 TATTCTTACCTCTACATACCTCTTCTGACTTCTGCTGACTTCTGCTGACTTCTGCTGACTTCTGCTGACTTCTGCTGACTTCTGCT  
83801 TCTGGTATTGATCTGCTGCTGAGGAGACTGTCGTTGCTGTTCTCTTAAACATTCAATGTCACCTTCTGCTGACTTCTGCTGACTTCTG  
83901 TCTCCAATCTCAGGAGGAGTGGGAGG  
84001 TGTGTCAGATGTCATCTTCCAGGAGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG  
84101 ACTCCACTCCAGCTGGGTTGTCAGAGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
84201 CAGATTCTCTACACTTCTGCTGACTTCTGCTGACTTCTGCTGACTTCTGCTGACTTCTGCTGACTTCTGCTGACTTCTGCTGACTTCT  
84301 TGAGTCTCTGAGGCTCTGACTTCTGCTGACTTCTGCTGACTTCTGCTGACTTCTGCTGACTTCTGCTGACTTCTGCTGACTTCTGCT  
84401 TCAACAGGGATTCTGAACTACACATGCACTACTCCCTCTGACGCAATAATAGAACTCTTTATCTGTCACCTCTGCTGACTTCTGCT  
84501 CTGGAACGTTCTTCTGACTTCTGACTTCTGACTTCTGACTTCTGACTTCTGACTTCTGACTTCTGACTTCTGACTTCTGACTTCTGCT  
84601 ATACTGACAGGTGATCATCTGTTAGGATATCTACCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
84701 AAAAATAGACAGTACTGAGCTACTAGCGTGAAGTTGGGAGGTTCAACAAGGGGAGGAGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
84801 TATCATGAGGGGACTTTGATGGCTGAGACTAGGGCTTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
84901 CAGGAACAGATAATTGCAATTGGGACCTTAATTGCAATTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
85001 TTGCCCAAGCTAATTGGCTAGAATTCTGACCAAGGATCAAATAGGATGGTCCAGGCTCTGGTTGAGTCTGACTGAGGAGGAGGAGGAGG  
85101 AACTCTAATGATAAAAGGAGTGGAGG  
85201 AGCTTGTGTCATTGTTGTCCTTCTGACTTCTGCTGTTCTCTCTGTCAGACACTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT  
85301 CTTGCTCTGTCCTCCAGGCTGGAGTGTGGCTGAGTCTGCTCACTGCACTGCTCCGCTTCGGGTTACGCCATTCTCTGCTCAGCTCC  
85401 TAGCTGACTATAGGCACCCGCCACACCCGGCTAATTGTTGTTAGTAGAGACGGGAGTTTACCATGTTAGGCCAGGATGATCTGATCTC

FIG. 2N

## **Heller Ehrman White & McAuliffe, LLP**

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## Title: Genes and Polymorphisms on Chromosome 10

#### **Associated with Alzheimer's Disease and Other**

## **Neurodegenerative Diseases**

**Serial No. To be assigned      Applicants: Becker *et al.***

Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

Date of Filing: 1/11/12 Attorney: [REDACTED]

85501 TGCACCTGCTGATCTCCGGCCTTAAAGTCGTGGATTACCGCATGACTCACCATGCCATTCTTGAAACATTTCCTAACATGTAACCTCT  
85601 TCTGGGGCTGTTCTACTGTGCACTAAAAAAAGCTTCTTGGCTGGCAAGCTGGCTGACACCTGTAACTCCACACTTGGGAGCTGAGGGCAGGGGT  
85701 CACCTGAGGTCAAGAGTTCAGAACCAGCGCTGCCAACATCGTGAACCTCTCTACTAACAAATACAAAATAGCTGGCAAGGTGAGGCACTCTG  
85801 ATCTCCAGCTACTTGGGAGCTGAGGGCAGGAATTCTGTAACCCAGGAGCAGGGTCTGAGGCAAGATGCCCCATGCTACCTCCGGCTGGGT  
85901 GCCAAGGCAAATCTCAACTCAAAAAAAAAAAACAAAATAGCCAGGGCTGCTGCTTAATCTCCAGCTACTTGGGAGCTGGAGGCTGAGG  
86001 CAGGAGACTTCTGAAACCGGGAGGCAGACCTAACAGTGTAGACATTTTGGCTTGTCCCTTCCTCTAGTAGCAGGAAGGCTGTATTTGTA  
86101 GTAGACATATTGTGACTCTCTGGCAGGAAAAAAACATAGGACCAAATCTGACAGGACAATAAATCTTCTGGGTATGTGTCACCTTTT  
86201 AAAATCTCTGGATGAGCCACGGTTTATTAGTCATCTCTGTAAATTCTGCACCTCAGATACTCTAGGAAGGTACTCTTTTGTGCTCTTGGTTT  
86301 TTTTTTTAAAGAGACAAGGTTTGTGATTGTGACCCATGCTAGAGTGCAGTGGTGTGATTCAGCTACTCGCAGGCCAAACTCTGGCTCAAGCAAT  
86401 CCTCCCACCTCACTTCTGGAAGTACTGGGCTCAACTGAGGACATCTGGCTGCCACCCACCTGGCTTAATTATTAACATTCTTGTAGAGACGGTCCACTATTG  
86501 CCCAGATTGCTCTGAACACTCTGGGCTCAACTGAGGACATCTGGCTGCCACCTGGCTTAAGTGTGGGATTTCAGGCAATAACCCACTACATCC  
86601 TGCTTTTTTAAGGACTGTTTTAACTGACTTTTAACCTGACCTTGTGATCTTCTTCTCCCTACTCTCTTCTTAAATTAGTCACTGAGGAA  
86701 CCTGAGTACTCTCTGGGAGCTTCTACTAACATTAAGGATTAACAGGCAATGTCAGAAACCTCTATTCTGATCT  
86801 TCTGATGTTGACTTCTGGGAGCTTCTACTAACATTAAGGATTAACAGGCAATGTCAGAAACCTCTATTCTGATCT

exon 12

86901 CATATATACAGTATGAGTTACAGGGTTTTGTGTTCTATCTCTAGGGTTGCCATAGTTCTAAACTTTGAGAAAATCTGATCGACA

exon 12

### exon 13

90201 ACTGCAATTGTGTGTTCATATTATCAGAAATGGCAAAATGCTGACCTGAATGGGAAATTAACTTCCACAAAGAATGAATTATTCCCTACCGAAT

**exon 13**

90301 TTTAGAGATTTACCGTTAGAAAAAGGGCGAACCATACCTGCTTATAAGGTAACTGTTGAATCAGTGTAACTTAACTGGGGACAGACCTAA  
90401 TACATGGGGACTGGTAAATGATTCTTACATTGGTACTATGTTGATTTGGGAGGCTCACATCCTAATGTCAGACAAAAGCTGCAGAAAAGATAA  
90501 CTACAAAAAAATATTAGAAGGTTAAAAATATTAAAGCAAGGACAAAACAACTAAACAGTGTAGAACATCTGGAAATCATCTTCTTGTAGGAAAAAAAGTA  
90601 GTCTGAGCTGAAACCAAGCTGTGCAAGGAGTCTGCTTCTTCTCAGTCTGCTGAAGACCCAATAAGGAAGTAGGTTTATGTCGATCATGGACAT  
90701 TAAAGATAAGAAAGGATCTCTAAAGCCTGAAAGAGAGCAAGTCCAGGGGAGCTGTGGATTCTGCCCTTAAACATCTTATGACATAGTGACTA  
90801 TCTCAAATTAGGAACTGATAACTGCAAAAGGGCTGTGAGAAGCTGGCTTCTCCCTCCATTTCTCAGAATGCTCTTCTCATGCTTATTATTCAG  
90901 AACTGAGTAAGATTGATGTTAAATTCTATCAAAATTATTACGACACATTCTCCCTCTAAACGTTTCTCCTTCAACCTATTCTCTCCCT  
91001 CTAACACTGTTCTAAACTCATGACTGTAGGCACACACACAGATGTTCTTATCTCTCATGAGTGCCTAACATTGGAGAAGATTAGATGAGTC

**FIG. 20**

**Heller Ehrman White & McAuliffe, LLP**  
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## Title: Genes and Polymorphisms on Chromosome 10 Associated with Alzheimer's Disease and Other Neurodegenerative Diseases

Serial No. To be assigned Applicants: Becker *et al.*  
Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

exon 14

94201 TCTCCATCACAGGATACAGCTATGAGCAAACCTTGGTTCAACAAGATGATAAGTTTTTGCGGAAGGCTGTCTCAACTTTGAATTTCAGGTATG  
94301 TAAGATGAATCTACCTTATAAAGCTTATAAAAATCAACATTACGTTTCCAGGAGCTGTCTGTTCTTCTAACATCCTGCTAGAAATAAAAAGGATT  
94401 AGAGCTTATTCTACCATAGAAAAGGAGGCTGAAAAAAATAAATAAATAAAGTAAGAAAAGGAGGAGCTGGCCGCCAGCTGGTCACGGCTGTAACT  
94501 CCAGCACTTGGGAGGCTGAGGGGGGGATCATGAGGTAGGGCAGGACTCAGGAGCTACAGGAGCTGGCAGGAGGATCTGAGCTGAGATGCCAGCTGACTCCAGGC  
94601 AATTAGCCGGCATCGTGTGGCTCTGTAGCTCCAGCTACTCAGGAGCTGGCAGGAGGATCTGAGCTGAGATGCCAGCTGACTCCAGGC  
94701 TGGCCGACAGAGGCAAGCAGACTCTCTCAAAAAAAAGAAAAGAAAAGGAGGACAGCTGGTCTAGCTGGTCTAGCTGGTCTAGCTGGTCTAGCTGGTCTAG  
94801 TTTCCTTTCTTCTTCCCATTAAATGAGTAGCCCTTAGCTGAAATGATTAGTTAGCTTACGCTTACGCTTACGCTTACGCTTACGCTTACGCTTACGCTTACGCTTACG  
94901 TCTGAGGAGCCGGATGATTCTACAGGAAAGAAGACTCATGGAAAGAATAAATTTGGGTTTGTATTAGCTGTTGGCTTGTGATTCTGGAACCTG  
95001 TCTAGAAAGGAGGAGCTACTTACTAAATGATCCTGTAGCTGCTTGTCTGAAACCTTCTAGATGCTTCTCTTCTAGTCTGCTTGTGATTAC  
95101 TTAAACATTACTAAATAAAAGGGAGAAGATGTTAGTAAATTTATGAAATAATGCTTACGCTTACGCTTACGCTTACGCTTACGCTTACGCTTACGCTTACG  
95201 CTTTACTTGTCTGTTAACTCCTGTGTTAGCTTACGTTACTTTGTGACTTATACCTTAAATTTTAAATTTCTAAATTTCTGTTGCTTGTCT  
95301 CCTTACATGCTTATTGTTCTACTTCTCAATATGATAATCAGCTTTCTCAATTATTTTATTACTGCTTCTGCTTACGATCAAATTAAGCTGAGAAG  
95401 TTAAATGCTTGGAAAGAGGAAAGGAAATTGATTTTCCATCAAAATAATGTTGAGATTATAGTGTATAAAATATTGCTTTTATGCTGAGATT  
95501 CACAGATTATCTAGAACTGTGAGCAGATTTTTATTGTTACCCAAAGATGGCTGTCTGAGTTTGTCTGCTTAAAGGCACTTACAAAGCTG  
95601 TTTTTATTTTGTATTTGAGAGTGTATTGTTACACTTGTCTCTAAACTCTGCTTACAGGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCT  
95701 CCCCTTGAGAGACCATTTACATTGTCTCTAAACTCTGCTTACAGGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCT  
95801 TCTGCTCTCTAGAGGTAACCTAGTGTCTGTTCTGTCTGTTCTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCT  
95901 TATATTATGCTGACTTACGTTATGTTTTAAACCCCTGTGATCCATTAACTTAAAGCATATACTGTTCTGTTACAAAATACTGTTTAAATTACACAT  
96001 GAACAGAAATTCTGATCTCCAGTGTGAATCTCATTCTCTTTAAAGCTTGTCTGCTTACCTTCTGCTTACACCAGCACAGCTGTGCTGAGCTG  
96101 TTTTGTGTTCTCTTTTTTATGAGGACAGACAGTCTTCTCTGTCTCACCCTAGGCTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCT  
96201 CAACCTCAGCCCTCTGAGTGTGACTCAGGCTGACTCAGGCTGACTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCT  
96301 GAGCCATAGTGTCTTGGAGACCCAAACTGTGAAATTCTGCTTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCT  
96401 CTCTCTTTGTGTTGTGATGATTGTTTGTGTTGTGTTGTGTTGTGCTTAAAGGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCT  
96501 TAAAAAAATTATGCGAACACTTATGAGTTTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCT  
96601 CACATTATTCTCCATTCTTCTGCTTATGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCT  
96701 AGCCGAGGAGGAGATCGCTTGAGCTTGTGAGGAGCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCT  
96801 TTATCAGTACATTAGTTATTAATCTGCTTACAGGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCT  
96901 GTAGTATTCTCTCAGCTGGAGACTTCTCACCCTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCT  
97001 TGTAAGAGTGTGGCTTGTACTGGCATCTTATGTAAGCAGCAGTCTTCTCTCTGCTGCTACCCCATCTTCTTCTGAGCTTGTCTGAGCTTGTCT  
97101 TTAACCCATGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCT  
97201 TGAGTTGTCTACTCTTTATTCTTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCT  
97301 CTGATAAAAGGTAAAGCAAGGTTGTATAGTCAAGGAGCAGGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCT  
97401 AATTATGTTTCTTATGTTCTGGGAAATGAAGTTAGTTAGTTAGTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCT  
97501 TATTTTCTTATTTTCTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCTGAGCTTGTCT

FIG. 2P

**Heller Ehrman White & McAuliffe, LLP**  
**Sheet 19 of 113**

## Title: Genes and Polymorphisms on Chromosome 10 Associated with Alzheimer's Disease and Other Neurodegenerative Diseases

## Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attnx Dkt No. 37481-3308B

Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

97601 AAC'TCGGAGTAACGCTAACATTTCACAGGTCTCAATTTCATAAATTTCTAACGGTCTGAACTCTGAACTTCCAGACAGCACCATTCTGGCTGCCAACAGG  
97701 ATG'TGACTTTATTGGAGAGAGGGGAAGACATCTCAAATCTGCTATCTGCTTCTGCTGCCCTTCCTCCATTAGGCTTAAGCACGCCATCATTGGC  
97801 CCGTTCCCACTGCTCACATACCCCTGCCATTCTAACCTTGCACTGGGCTAACACCATCTGGGTAGGCAGTTCTCCCTCTCACTACTACCACTGG  
97901 CACCGCACACCGCACGATGACACACACACACACTCACACACACTTCAGGCTTCATTTTCTTCAGACATCTTCAGGCTTCATTTTCTCACTGG  
98001 TCAAGAATTCACACATATCTCAGGAAATCATTAACCGGTTCAATATCTTCTTCAGGCTTCATTAACGGCTTCATTCAGGAAATAGCC

exon 15

98101 CTATTTACTGTCAACATTTCTTCCAGCCCATTGCTTATGTGGACCCCTGCAGTAAACATGCCCTATTGTACCTTGAGCTCTCAAAGACTCACT  
exon 15

### exon 15

exon 16

101501 TGGAAGTTGTTTGTATTTTAGCTTTAACCCCTGAATTCTTCTGTAGCTTCAGTGAAAGGTTACAATGACAAGCAGCCAATTTTACTAAAG  
exon 16

CROSS 10

101601 AAGATTAAGAGAAAATGGACCTTGTGAGATTTGAGAAAAAAAGATTGAAATAGTCATAAGAACAGCAGAAGTTCTGCAAGCTCTGCCTGCTTCTTC  
101701 GATAATATTCTCTATATAAAAGTTCTATAAGTTTATAATAGTTTTATAATAAAAGGAAGCCAGGAGAAAAGAACATTCTATAACCTCTGCGCATCTACATCTC  
101801 ACCTTGTCATGCAAATCCTATACTCCATCCAGAAAGAACATTCTAGTAGACTCTGGTGGACACTGGCCCTCTCTCTGTTGGTGCAGAGGCTCACTGC  
101901 AATTTCAGAGTTGCGACTCTGTAAATTCAAGAGAACGACTTGTGGCTGTCAGGCCCTCTTGTGAAATGTTCCATCCCACCTCTAGTTGAGAAGACCGA  
102001 ATTTCAGCACACTGAGCTCTGCTTTACCTCAAGACCTGTGACATATTAGAGCACACTATTTGGGTTTGACATATCTCCACATTACATTCATTCTG  
102101 CCCAGTAATGGAAGTATGGATGAACACGCTGCTCTGTGAACTTAACATGACGACTTTCTGTTGATACTAGAAGAACATTACCACTAGTTTCAAAATAAGAT  
102201 TCCATATTTTATATGGCTACCTATTATGGCTGTCTATGGAGACTTGGGGATGGCTTATAGCTGAGAACCTAAAGATCCAAAGACTTCCCTG  
102301 AAACATTGGGATAACTTCTGAGGGACTAAAGATACTTCCATAGTCAGGCAACCTATTAGTCATGCTGAGACAAATGTAGCTTGGACAAAGAAAAA  
102401 GCATGCACTTTATGTAAGATCGGAGAGGAATAACCCCTTAACTTCAATTATAACTTCAGAAAGGGGAAAGAAGGGATATCCTAGTAATACAGCTTAA

### exon 17

102501 TAGAGAATTGAAATTGATTATAACTGGACTTTGAAATGTTTAAAGATTATAAAAATGAACGCATGTCTTTCACTAGTATATGCGATCT  
exon 12

CROSS 17

FIG. 2Q

**Heller Ehrman White & McAuliffe, LLP**  
**Sheet 20 of 113**

**Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases**

**Serial No. To be assigned**      **Applicants:** Becker *et al.*  
**Date of Filing:** 6/18/03      **Attny Dkt No:** 37481-3308B

102601 CTTAACAAATTCCGGGCTAACAGCCTACCAAGCATGCCATGTACTACCTCCGCTTGCTGATGACTGAAGTGGCCTGGACTAAAGATGAGTTAAAAGAAG

**exon 17**

**exon 18**

107201 GCAGATGTAACCCCTCCTGCCTTAAGGCCCTCATACCTCAGCTCTGTACAGCTGCAATTGAAGCCCTCTCCATGGAAACATAACAAAGCAGGTGG

18i.D+98  
A

FIG. 2R

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

exon 19

108501 TTCACAAACAAGATATGTTATGTTTGTAAATGCTGGACATATCTTTCCATAGGCTGCATTAGGAATTATGCAGATGGTTGAAGACACCCTCAT

exon 19

108601 TGAAACATGCTCATACCAAACCTCCCTCCAAGTCAGCTGGTCCGTTAGAGAAGTTCAAGCTCCCTGACAGTAAGTAGAGATGTTGTAACCTTGGGAAT  
108701 GGACTATTTTGACATAACAGTGTGGGTGATTACAGGTGGGCTGAATTGGTATAGTTTACGCCAAAGATTACTGGGAACCTCTCCTATTACAGAAAT  
108801 TATGATTAGAGATAGGTAAATTCTGCCAAACCTGGTGGAGGCTACAGGAAATAATTTCAGGAGATAGGCAATAATTTCAGGAGATAGGATACTGG  
108901 AATTGACGGGACTCTGAATGAACGGGAATTAGGAAGTAAAAATATCACAAAGGTATTGACTATGAGTCATGAATAAAATACATTATAAAATGAAAC  
109001 TCGAATTATAATATTAAATTGAAACCCATAGGATTCTTGGCAGAAATAGTTAGGAAACCCACAGGTGCGATAACATGTAATCATTACAGTATAT  
109101 TTGTTAAAGGGATTAACAAAGATTATGAAATTATGTTGAGGTTACATGGGTTACTTACATTAAACAGTGGCTCTCTGATAAAAACCT  
109201 CATTAAACCAATTATTGCAATATTGCTCAAACACTGTGAATAGAAGGTATAATTAAATGAAGGAAGGAAGACCTTTTGGCCAAACCTTGATTTGGTTG  
109301 TTCCCTATGCAACCATCTGTGCTGCCTTTCCCCCAGCTATTTCCTCCAAAATGGTGTCTCCCTTCCCCTCTTCATGGCCAGTGC  
109401 CTACATCCTACTCTCCCTCCAGCTATTAACTTCAGGCTACTTACAGTCACTTCCTCTGTGTTGGGATTGAAGTCATCTCCATCTTCATGGCCAGTGC  
109501 CTTGCAGCACAACTTCTGAACCCCTTCAAGCTACTTACAGTCACTTCAGTCACTTCCTCTGTGTTGGGATTGAAGTCATCTCCATCTTCATGGCCAGTGC  
109601 TCCTCTAAAGGCAAGTGTGTCTAGTTGAGTAGCTCTAAAGCACTGGAACATATTACTTCAGGATACCTTGTGAATGCTTAGAGATA  
109701 CGTTGACCCAACTCTGCTGTGCAACGATCAGACATCACAGACTGGTACTGGTTATTTCACAGTCTTCAGGTTACTTCAGTCACTAAACCCA  
109801 CGACAAACACTCAGGATGTGCTGATCCCACTAACATTAGAGAAAGCTCAGGATATTCTCAAGGCTACTTCAGGATCTTCAGGTTACTCAAAGTGAGGAGCTG  
109901 AGAAACAATATTCAAGTCAATTCACCTCTTACTTCTTACTCTCTACTTCCTCTCTGTCTCTTCTAGGATCTTAATCTTTGCTCC  
110001 TAAGTACCCCTCCAAATTCTCCACTGTGCAACATCTCCTTCAGGAAAGGCACTTAACTTCAGGATCTGTAATGCTGAATTAGCCAGTCT  
110101 ATCAGATGTGAATCTTAAATACTCTTCACTTAACATCTCCTATGCAAGGAAAGGCACTTAACTTAAAGTAAATTCAGGCTGGTGGCTCATTCC  
110201 TATAATCCAGCAGCTTGGGAGGCCAAGGTTAAAGATTGCTGAAGCCAGGAATTGAGATTAGGCTGGGTTAAAGAATTGCTTACAAAAAATT  
110301 TAAATAAAAAAAATTAGCTGGGCAATAGTGGCCACCTCTGACTTACTTAGGAGGCTGAGGGGGATGATCTGGCAGGAGGGTTGGCTCAGGAA  
110401 TGAGCCATGATTGTCACCTCCAGTCTGGTGCAGAGTCAGACATGTCTCAAGTGAAGAAATTTCAGGATTAAAGGAGATGTTT  
110501 ATTATATCTTATTCTTATTATTTTGAGACGGAGTCTACTCTGTCACTCAGGCTGGAGTATAGTGGCACAATATCAGCTCACTGCAACCGAGAAG  
110601 ATGTTTGAATATATGAAATTAGGAGGGCAGGCCAGGGCTGCACTCAGGCTACCTCTGAATTCAGGCACTTGGGAGCTGAGCTGGGATCACCTGA  
110701 GCTCAGGAGTTGAGACCCAGCCCTGGCACACATGTGAAACCCCGCTCTCACTAAAAATACAAAATTAGCTGGCAGATGTGGCAGGACCTGTAACTCCG  
110801 GCTACTTGGGAGGCTGAGGTAGGGACTTGTGAACCCAGGAGATGGAGGTTGCGAGTGAGCCAGATTGCACTCCAGCCTGGGTGACAGAG  
110901 CCAGACTCCGTCTCAAAAAAAAGGGCCAGGGCTGGCCTACATCTGAACTTGGGAGGCAACAGCAGGAGCTCAGCCTGGGTGACACCTG  
111001 AGGTCAAGGAATTCAAGACCCAGCTGGCAACATGGCAACACCCCTATCTCAAAAAATTAGGAGGCTGAGGAGCTGGGACATGCTATAGTCCC  
111101 AGCTACTCAGGAGGTGAGGAAGAGATTGCTTGAACCCAGTAGCCGAGGTGCACTGAGCTGAGATGGCACCACCTCACTCCAGCCTGGGTGACAGA  
111201 ACAAGACTTTGTCTCAAAAAAGGATACAAAAGGCTAGAAGGAGTGTGAGGTGGGAGGGAGAGGCTTACAGGCACTTGGCCTCTCTCTGCTT  
111301 TTTTTTTTTTTTTTTTGAGACGGCTCACTCTGTGCTCTGGAGCTGAGTCACTTCAGGCTCAAACCTCTGGGT  
111401 AAGTGTACCTCCGCCCTCAGCTCCAAGTAGCTGGGACTATAAATGTGAGGACATGCCTCCCTCTGTGAGAGGGAACTTAGTGTCTGCC  
111501 AATTATAATTAGTAAGTTGACTGTGTTGCAAAAGTGGACATGAGAAAAGTAAATCAACACTCCAGGCTCTCCTACCTCCCTTTCT  
111601 ATTAATGTCTAAATTATCATCTGTAAGTGTGGCAGACATAGCATTGACTTAAAGACCCAAATAAGTTTGAACTTGTCTTGTGAAACT  
exon 20

111701 TCCTAGGAGGATGGTTGTTATCAGCAGAGAAATGAAGTTCAACAAACTGTGGCATCGAGATATACTACCAACAGACATGCAAAGCACCTCAGAGAA

exon 20

111801 TATGTTCTGGAGCTCTCTGTCAGATTATCTCGAACCTTGTCAACACCCCTGCGCACCAAGGAGCAGTTGGGTGAGGGAAATAGCAG  
111901 GGTACTGTAGACTTGTGAAATTCTTCCCTGAAACATTTCACTTACACTGTATATCAGGCTATGCTACTTAGAGAGACTGTGAGA  
112001 AACCTTATTACAGAGAAATCCACTCTAAAGATAAGCAATCACTATCTTATGACATTAAAGCAATTATTTAGAGATGACTGCATATTACACAT

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A

112101 GTCAAAAGAGGCATTTAGTGGGGAAAAGGATACTAAGGACAAGCTTATGGTAGCAAGATGAGAAATGAGCCATCCAGAGGAGCTAGATTAC  
112201 TAAAGCCTGAGTCTCTGGGGCAGGATTATCTCTCATTCGTTTATATCCAAAGCTGGACATACAGAAGGACAGAACGTAAGTCTCCAGTTTACA  
112301 TACTGTAAAAGCTTGAGGACTCTGGCAGATTGCAATGAGGAAAGAGCTCAAAGGCCAGAATGAGCAGAACAGGAACTGAAAAAAAGGATG  
112401 AGTCTCTCCAAGTACCCATCTGTTAAATACCCATTGCTCTGGGAGGCTGCGGGGGTGGCATCTGGCAGGAGTCAAGGACAGACTGCCCACATGTTACT  
112501 AGTCAAACTCAGGATGGCAGGCTGAAAGGAATAATTACTACAGCATGTTAAATGAGCTTACAGGAGTCAAGGACAGACTGCCCACATGTTGAGGAGCTCAC  
112601 GCCTATAATCCAGCAGCTTGGGGAGGCTGCGGGGGTGGCATCTGGCAGGAGTCAAGGACAGACTGCCCACATGTTGAGGAGCTGGCTCAGGAGCT  
112701 AAAATACAAGATAGCTGGGAGGCTGCGGGTGGCATCTGGCAGGAGTCAAGGACAGACTGCCCACATGTTGAGGAGCTGGCTCAGGAGCT  
112801 GCAGTGGCAGGAGATCTGGCACTTACTCAGCTTGGGTGACAGAGGAGACTCTCAAAAGAAAATCAACAGTGTGAATGGCTATGTTGAAGATAGA  
112901 AACCTCTCAGAAGTGGAGACCCAGGGCAGGACAGCTGGGAGGCTGAGATCAGGGCAGGGCAGCTGAAGGAGATAAGCCAGAGGCTGGTTTGAAA  
113001 AGGTGTTGAAGGAAGCTGCACTGCTCATGAGATAACATGAGAAGTGTGACTTTAGCTGAGCTCTAGAGAGCTGAGTCTGAGGAGCTGGCT  
113101 TCAGGAATGCAATTCTAACAGAAATACAGTAGAGAGGAGCTGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGAG  
113201 TGAAAATGAGTCCAGCATTATATTCTGGGACTAATTAGCATAGATTGAGAGGAGTTAACCTCACAGAGGAGTGGAGGAGTACAAGAGTGGAGTTGAA  
113301 TAATGAATAGGATTCTTAAGAAGAAGAAAAGTCATCTCAACTTGTGAAATTCTTCAGAGAGCTTCTGCTCTGTCTTAGGAACTGAAACCAT  
113401 CTTAAGTGTCTATTTCTTAAGAGGTGAATACTCTAAACCTTAAACTAGATTATTTGCTGAGAGCTTGTGAGGAGTTGAAGGAGTTAAAATGACCC

exon 21

FIG. 2S

**Heller Ehrman White & McAuliffe, LLP**

Sheet 22 of 113

**Title: Genes and Polymorphisms on Chromosome 10 Associated with Alzheimer's Disease and Other Neurodegenerative Diseases**

Serial No. To be assigned Applicants: Becker *et al.*  
Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

**FIG. 2T**

**Heller Ehrman White & McAuliffe, LLP**

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**Title: Genes and Polymorphisms on Chromosome 10**

**Associated with Alzheimer's Disease and Other**

**Neurodegenerative Diseases**

**Serial No. To be assigned Applicants: Becker et al.**

**Date of Filing: 6/18/03 Atty Dkt No. 37481-3308B**

118601 TGTCCTCATCTAAATTACTCTGTTTGCATAATAGCCTGTAGTCCACGGCTGCGGGAGGCTGAGACAGGAAGATCGCTAGAGGCCAGGAGTTCAA  
 118701 GACCAACCCTTGGAAACATAGCTAGACCTGTTCAAAAAAAAAGAGAGAGGGCTGGCGCTGGTGTGTTCACACCTGTAATCCACGACTTGGGAGGCCGA  
 118801 GGTGGCAGATCAGGAGTTCAGGAGTTCAGGACGACCTGACCAACATGTTGAAACCCCCTCTACTAAACAAACAAATTAGCCAGGCTGCTGGTG  
 118901 CACGCCCTGTAATCCACGACTCAGGAGGCTGAGGAGAATCACTTGAAACCCAGAAGGTGAGGGCTGAGCAGGAAAGATAGCACCACATGCC  
 119001 AGCTTGGCCACAGCGAGACTCCATCTCAAAAAAAAAAAACAGAGAGAGTATTATAACAGCCCTAAGCTAAGTCTGGAA  
 119101 CAGCTTCCCTAGCTGTGTTCCATGCTATGCAAGAATTAATAGGGTACCTAGGAAAAGGGTTTACGACCATACAAGTTGGGAAAGACTATTGCA  
 119201 TTCTTAGAGAACATCAGGTAGTTGTTAGAAATTATAAGAGTCCACAGACTTACGCTGATTTAATTGACTAACATTTCTA  
 119301 AACTGATTTCACCATGCTATCTTTTACACAGAACTTACATAAAATCTCCACGACTCTAGTGTCTTACAGAACATATAATAGTTGCAAGAAGGTG  
 119401 CAGTTGTTTGTGTTTGTAGGAAATGAGGTTGCTCAGAGTTGGCTCAGAAAGGAAACATCTGAAACTGGAGAACCTTGGCTGCTGATGTGG  
 119501 GTGAGACAAGGGGTAATGAGGTTGGCTGAGAAGAGATGGAGAGAGTCTTGGAGAACACTTTTACTCTAGTGTGAGAAGATGAGGTT  
 119601 ACTACATGTTAATAGAGGAGACCTGGCTGAGTTCTGGAAAGGCTGGAGCTCAGCAGGCTCTGAGAATCTGGCTGTTTGGCTGCTGGCA  
 119701 GGAGTAGAGCTGGGAGGCCAGGGCAGGATTGCTGTGCAACATCACAGGCTCTCTGGCAGTACATAGGACACGGCTTATTAGTAAC  
 119801 TACTAACTAGTAAACAGTTAGTAAATAACTGTGTTAGGTTGGTGTGCTGATGTTCTTCTCTAAGGATATGAAACGTTGCTTGGCAAG  
 119901 GAATAAGAGAACCTTGTACAAATTGTTGACCCCTTGTAGAAAAGACAGTAGAAGCTGCTGTTAAGGAAAGGGTGGGACATACTCCCC  
 120001 CCTGCACTTACGACTGTGCTGGCATTCATGTTAGTAACAGGAAACCTCTAACAGCAGCATGGTGAATGGAGAGAGCAACGACTCTGA  
 120101 CACCATCACCTGAACTGTGCTGGCATGTAATCATGCTGAGCTGTGCTGTTAGAGTCCATGCTCTAAAGAACATCATGATGCTTAGTCA  
 120201 CAGAGAAATTAGTGAAGTGTGACATAGGGAGTGGCTGATATAACGCAGGACTCTAGAATTCTTAGTTCTCTCTTTGGTAGATGAAC  
 120301 AACAGAGTCTGAGGTTCTAGAGGGCAGGACTCTGCTGTGCTGACTAACGACCATTTGCTCTGAGACACTAAAGATCACAAGTGC  
 120401 AGCCCTCACGCCCATCCCAGTGTGACTAGGCTAGGTTTAACTCTAGCTCAGGCACTTATAGCTGTTAGGAGTTGGAGCTTTTAATCTCCT  
 120501 GGATTCTGTTTCTCATGTTAAATTGGGTTAGGATAATTCTCTCTTAGAATAGAAAAGGAAAGGAAAAGAAATAATTCTGGTGTGCTTGC  
 120601 TAAATTTCTCTAGAGCTTAAATAAAATGTAAGTGTGAGGGAAAGAGGAAATGTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
 120701 TTTTGAGACAGACTCTGCTGTGACCCATGTTAGCTGGCATGGCTGATCTGGCTCATGGCCTATGGGACATGGGAAACTTGCTTCTG  
 120801 CTCCCACCTCAGCTCCAAAGTATCTGGGATTACACATGTGCAACACATTGGCTAATTGTTGATTTGGTAAAGCAGGGTTCACTATGTTG  
 120901 CCAGGCTGCTCAGACTCTGACCTCAAGTGATCACCTGCGCTCCAGTGGGATTACAGGATGAGGCAACTGCACCCGGCAGAAAGG  
 121001 GAAGCATCTTCTATATCTGACTGTGATAGCTGTTAGCTCTCATAGTCTTCAGAGAACACCTCATTGTAAGTCTTAGGGAGCAAAGGGTGC  
 121101 GCTCTCTTTGTGCCCTAGGAAATGTGGCAGTAGATGCTCCAAGGAGACATAAGGTATCCGCTCATGTTCTGCCAGGGAAATGGATTCTGTAAGTATC  
 121201 AAATGGCTTCTTGTAGGCTCATGTGAGGCTCATGTTGGGCTTGTGCTAGCTACATGCCCTTATAGAACCCAGAAAGTAAAAGAGGTAGAGAAC  
 121301 GAAACCTGGAGAACAGGCTCAGATATAACGGGAAAGAGAAATGAGGTTAGGAGGAGAGGCAATACAGGCTGATAGAATGCCAGCTAGGCCAG  
 121401 CATCACAGGAAAACACAGCTGCTGCTGTTGGGTTGTCTCAAACAGGCTGCAACACTGCACTGTTGAGGAGTGGGAACTTAACCTCCAG  
 121501 TCCCTTCTGTTCTG  
 121601 TTTAGAAACCTAGCAAGGTCTCTGGTGGACAGAGAAGTCACTTACAGCTGGGCTTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG  
 121701 TGAGCCATCACTGGTGGCTGCTGGATAGAAGGAGGACAAGTACTTAAGGCCCTGGGTAGCAGGCAACCTTGTGAGGATCTGAGAAGTACATGA  
 121801 CTGGTGGCTGTTTAATTAACGAGTCTGGTTAGTTTTTTTTGTGATAGTATCAATAAGTACAAAGTATTAACCTTTATTTTC

exon 23

121101 GCTCTCTTTGTGCCCTAGGAAATGTGGCAGTAGATGCTCCAAGGAGACATAAGGTATCCGCTCATGTTCTGCCAGGGAAATGGATTCTGTAAGTATC  
 121201 AAATGGCTTCTTGTAGGCTCATGTGAGGCTCATGTTGGGCTTGTGCTAGCTACATGCCCTTATAGAACCCAGAAAGTAAAAGAGGTAGAGAAC  
 121301 GAAACCTGGAGAACAGGCTCAGATATAACGGGAAAGAGAAATGAGGTTAGGAGGAGAGGCAATACAGGCTGATAGAATGCCAGCTAGGCCAG  
 121401 CATCACAGGAAAACACAGCTGCTGCTGTTGGGTTGTCTCAAACAGGCTGCAACACTGCACTGTTGAGGAGTGGGAACTTAACCTCCAG  
 121501 TCCCTTCTGTTCTG  
 121601 TTTAGAAACCTAGCAAGGTCTCTGGTGGACAGAGAAGTCACTTACAGCTGGGCTTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG  
 121701 TGAGCCATCACTGGTGGCTGCTGGATAGAAGGAGGACAAGTACTTAAGGCCCTGGGTAGCAGGCAACCTTGTGAGGATCTGAGAAGTACATGA  
 121801 CTGGTGGCTGTTTAATTAACGAGTCTGGTTAGTTTTTTTTGTGATAGTATCAATAAGTACAAAGTATTAACCTTTATTTTC

exon 24

121901 TTATAGGTCTGTGTTGGAGAGTTCCATGTCAAATGACATAATTGTCACAGCACCAGCTTGCACAAAGTAAGAAATATAACGTTATGTTAGAT  
 122001 TGTACTGACAGAGGACTTCTATTTAGAAGAACAGCCTGGTT  
 122101 GAGTCAGTGGCTGATCTCAGCTCAGCTACTCACTTCTGGGCTCAAGGAACTTACCTCTGGGCTCAAGGAACTTACCTCTGGCTCAGCTGATCAG  
 122201 ACACGCCACCATGCCACCTAGTTTGTATTTTTAGTGGAGATGGGGTTTACCATGTTGGGCTGCTCTCAAACACTACTGACCTCAACTGATCCA  
 122301 CCTGCGTGGCCCTCCAGAGTGTGGGATTACAGGACAGACACTGTGCCCCGCCAGAAGAAACTTGTTCATGGGAACTAAACACTGATGA  
 122401 TTTAGGCTTCTG  
 122501 TTCTGTTTATTTCTCATGATCATTCTGCTGCCACACTGTGTTGGCTGACACTGCAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG  
 122601 AATCATCTAGAAGGATTGACATAGCTGCAAGAGGGAAACTGGCAGTGTAACTAGGCTTTGTGGGTGGCACACAGCCTGCTACTCTGCTGA  
 122701 AGCCTGATGCGAACGCTCTAAGTCTTGTGAGGGCAGGCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG  
 122801 CAATTCAAGGACCTCCAGACATACTGATCCAGAAAGGCTAGCAGACATGAGTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG  
 122901 AGTATATTAAGTAGAGGATGAGGTATGCTCCAGTGTCCGCCAAAAAAAGGTGATGCTTCTGATGTTAGGTTAAATACACTAAAGGAAACTTT

exon 25

123001 TTCTTGAGGCTGAAGTGTGAGAACATGACCAATTGCTGAGGAACTTACAGGCTGCTGCTGCTGAGTGTGCTGCTGCTGCTGCTGCTGCTG  
 123101 CTCTGAAGATTCCCATGCTGGAAAGTGCAGTGGATGCAATTGCTGAGTGTGCTGCTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTG  
 stop codon

exon 25

123201 CACTATTAGAGAACAAACAAAAATTGTCATAAGTCAATTGAGAAATTATAAAACAAACTAAATTACAAACATCTTATAGATGTAGAATATT  
 stop codon  
 123301 TAAATACATGCTCTTAAATATTTTAAATTCTTGTGAGTACTGAGAGAAATTCCCAATAACAACTGCTTAAATGATGATATTCTATAGAA  
 123401 TCTCTCTTCTTCTTCTGTTAAATAGTCAGTGTGAGGAAAGTAAAGGTTAGCTCTTCTAAAGCCTCTAGCTTGTGACATAGAAGGCTC  
 123501 ATTTAGAAAGGTAAATAACTTTAAATTGATCCTCAAATTGCTTCTACTTGTGTTCTAGTAAATCAGTGGAAACATTACATTTGGCAGATGA

**FIG. 2U**

**Heller Ehrman White & McAuliffe, LLP**

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**Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases**

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

FIG. 2V

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10

Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned Applicants: Becker *et al.*

Date of Filing: 6/18/03 Atty Dkt No. 37481-3308B

1 NNNNNNNNNNNNNNTCCAGCACTTGGGAGGCCAGGGCGGTGGATCATCTGAGGTAGGGATTCCAGACCTGGCCAACATGGTAAACCACATC  
101 TCTACTGAAAATACAATATTAGCCGGCGTGCGCACCTGTAATCCCAGCTACTCGGGGCTGAAGCAGCAGAATCGCTTGAACCTGAGGGC

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+CA

201 GAGGTTGCAATGAGGCCAGATCGCGCCTGCACTCCAGCCTGGTGACAAGAGCAAGACTCCGTCCTCACACACACACACACACACACAA  
301 AGACTTCTGCTCTGCCTGGGAGCTGGCTCTGGACCTCTCTCTGCTCTACTGCCCTCTTACAATTCTAAATAATTATAATCAT  
401 GGGCAGTGCTTACCATATATTCCAACTCTATTACTTCCACAGCTTAACTTCCACCTAACCCCTGAGATGGTTACTATTATTCTCTCTGAGC  
501 TGAGGAATTGGGCTAGGGACGTTATGTAAGTTGAGCACGCTACGGCTAAAGTCCACACTCAATTCTAGCGTCTGGCTCTGACTACCAAGTCC  
601 CGAGCAAGCAGACAGACCCTCTTACGTTCCGTAAGGCCACCTCCGGGGGCTCGAGTGGGATACTGCATCCCATGGTGCCTTGGCGCAG  
701 CGCAGCATTGGTCCGGTACTCTGCTCTTCAAAATTGAGGCCCGAGTCGTTGCTAGTTCTGGGATTCGGGGAGAGGAGATTAGTGAATTG

e01

801 GCGGCTCCGACTGGCGGGACAACGCCACGCCAGAGTACCGGGTAGAGACGGGGACCCGACCTGGTGCCTCGGCTCCAGGCCACGCCAGCG

e01

901 CCGAGAGGACAGGGAGACTCCGCCCTGCGGCCAGGCCCTCCGCCCTCACAGGCCAGTCCCGGGGGCTTGTGATTTTGGCGGG

e01

1001 ACCGTCATGGCGTCGCAGCAAATTGCTCTGCAAGAAGAAAGAGGAAGAGGAAAGACATCCAGGTGGTGGTGGATGCAGGTAGGGAGAGGCTGAC  
start codon

1.i.D+69

T

1101 AGGATTCCGAGCGCTCGGGCTTCGCTGGCCCCACTGCGCGGTCCAGGGAGAGGGATTTATTGCAATTCTGAGGGTCCCAGTTCTGGTTC  
1201 TCCCGCTCTGCTCAATAAAATGACACCCGGTGTGCTGTGTTAGTGTGTTTAAAGGAGAAATACATGTTGATCACTGTTCCATACTGAA  
1301 GTGGTTCTCTATGTTAAACTATAGTCAAATAAGGACTGAGGTGACTCTTATATGCTACTTCATGAGTTGCAAGTAAGCTGAATACCT  
1401 ATTTGAGATGGTTAACGACTTACGTTGGTATTATTACCTCTAAAAGCAATCAACTCTGTTCTTATCTAGATGCAATATTCTGCACTCC  
1501 CTAAACAAGTAAACATCTCTGTCCTTAAACATAAAATTAAGTGAAGTTATGTTTAAAGAGATCAAGACAAAGTTAGCTAGTGAAATTCTG  
1601 ATTGTCGCTGAGTTTCTCCATTCGCGTGTGTTACAGACCAAACTAAACGGGATATTGAGATAAAGGAGTTGGAGGGGTGTTCCGGCCCTCC  
1701 CTGACTGGTTCCAAAATTCCTCAATTAAAATAGCTAGAACTGCTGTTAGTTAGAATTGATTTATCAACTTTAGGGCTCTCCACAGTT  
1801 ACTGAGTATGTTGTTGTTGCTGTTGCGTAAACAGTTGCAACTTCTGTTAGTTGAGGAAACCCAAAGGATTCTAAATTAAAGGTT  
1901 TTTTGAAGAAAACCTTGTATCAACAAACTTCTTGGCTTACTTGTGAGGAAATCTGAGGTTGCAACTTCTGTTAGTTGAGGAAACCCAAAGG  
2001 ACAAGGTGTCAGAGAGGAATTGGTGGCAACTTAACTGAGGTTGCAACTTCTGAGGTTGACTCTGGGCTTCTGTTAGTTGAGGTT  
2101 AAGAATTTTTATTTAAAGTCACTGTCATATAACAACTGAGGTTAATTTAAAGGATTTAAAGGAGATCAAGACAAAGTTAGCTAGTGAA  
2201 TTATTTAATTTCTCTTAAATGTTAGTAAACAAATTCTACAGCTTACAAAAGGTTAATAGGAAACAAATGTAATACATTGATATTCACT  
2301 TTAAGAACAAAACAACTATTGCTGGAGCCCCCTTTTCCCTCTCCATCCCTTTCTCCAGGCACTGTTAACATTATGTAACCTGTT  
2401 CGCTATACATTCAACTGAGAGAACATTACTTACCAATAGATAAGTTGCTGTTCTGTTAGTAAACATTTAGGGTAAAGA  
2501 GATTTTTTTTTCAGATTAGCCTTTCTCTCAAAATAGCCCTCTGGCTGTGCTTACCTAAAGCATTAAAGCTTACTAAAGGCAACTTATGAGTT  
2601 AGGTCTCAGGGGTTGTAAGCCTTTCTGTAAGGAGGCCAGAAATAATTTTAAACTTCTGAGGTTGACTCTGGCTCAGATCACATGTT  
2701 TCAGTTTCTGGAGACGGACTCTCGCTCTTACGGGCTAGTGCAGTGGTCACTCAGCTACTAGCTTCCCTCCGGATTCAAGCAATTTC  
2801 CCACCTCAGCCTCTCAGGTAAGCTGGATTACAGGCCACACCCGCTGCTGTAATTGGTATTAGGAGATGGGTTTACCATGTTGCCA  
2901 GGCTGGCTCGAACCTGACCTCAGAGAACCTACCCACCTGGCTCCACAAAGTGCCTGGGATTTAGGCTGAGCTACTGACCCCTTACATGTT  
3001 TCTGTCACATTTCAGTCTTCTTAAAGAACACTTAAACATGTTGAGGTTTCTGTTCTTAAAGGCTGAGGTTGACGGCAGGGCAGGTT  
3101 GGTAAAGTTTACAGTCCATCAATGCGCTACTGGTTCTCTTCTTATGCTCCCTCTTCCATCCCTTCAATTAAAGGCTGAGGTT  
3201 TCAAAACACACATAATAAAATTAACATCTAACCAACTTTAAAGTGTACAGTGTACAGTGTATAAAATACATAATATTCTGCAACATTAC  
3301 TCTCCATAACTCTCATGAAAACATGAAACACTTACACATTAACAAACTCCCTCCCTCCATACCCGACACCTCACATTGCG  
3401 TGTCTTATGTTGACTACTCTACAAAGTGGAGCTCAATACAGTATTCTCTTGTGACTCTGCTACTTCACCTAGGCTATACTG  
3501 TCCAGGTGGACCATGTTGAGCAAATGTCAGGGTTCTCTTAAAGGCTGAGTATTGTTGACCCATTTCAGTGGCT  
3601 ATATGTCACATTGACTCTTCTGTT  
3701 TGGCTCACACTGCAAGCTCCATCTCCGGGTTCAAGCCATTCTCTCCACGGCTCCAGGAGCTGGGACTCAAGGCCCTGGCATCT  
3801 ATTGTTTGTTGTTTAAAGTGAAGACGGGGTTTACCATATTAGCCAGGATGGTCTCCATCTCTGACCTCTGTTGACTCTGCCCT  
3901 CGGGATTACAGGGCTGAGCTACGGAGCCGGGCTTGAGTTACTTCTGTTGACTTATGTTGAAATGTTGCTGATGAAATTGGGTT  
4001 GGGTATTACAGGAAATGTAATTGCTGGATCATATACTGATAATTCTATTAAAGTTTGGAGAACCGACAATTTCACAGTGGCAGGATT  
4101 TACATTCCACCAACAGTGCATAAGGGTCCAACTTCTCACCCACCAAGTTTCTGTTCTTCTGTTCTTCTGTTCT  
4201 GTGTGAGGTGCTATCTCATGTTGAGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT  
4301 TGGAGAAATGCTGTTAAGCTCTTCCCATTTTAAATGCTGTTGTTGTTGAGTTTCTGTTGTTGTTGTTGTTGTTGTTGTTGTT  
4401 TACATPAAACGGCAAAATTCTCCCATTAAGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT  
4501 CATGGCTCTTGTGATTGCTGTTGGGCCCCAGTGCAGGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
4601 TCCAGGCTGAGATACCAATGCT  
4701 TTCTGTTGATTACACACTCTGCATCTTCTGAGCTTCTCAGGGTTCTCTGCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
4801 AAGGATCTGACAAATGTTGACTTTGGAGAACACAGGGGCTGGCTTACGCTGCTTCAACCTTGGCTGCTGGCTAGTCATCTCCAGTCTC

FIG. 3A

**Heller Ehrman White & McAuliffe, LLP**

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# Title: Genes and Polymorphisms on Chromosome 10 Associated with Alzheimer's Disease and Other Neurodegenerative Diseases

**Neurodegenerative Diseases**

FIG. 3B

**Heller Ehrman White & McAuliffe, LLP**  
**Sheet 27 of 113**

**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**

**Serial No. To be assigned      Applicants: Becker et al.**  
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12001 AAAATAATAGACTAATTGGAAAGCTTACGCCACATGAGCAATTCACTCCACTTGATGCTCTGGCCTACCTCAGTATAAGTTGGTCTACCTTAGT  
12101 TTTGTGAACTTTTAATAACTGTACATTCTAGATTTGGTTATGCACTGTAAAGTTTGTAGTATGCTTCAGGAAATGAAAGCATTACCATGACTACCTG  
12201 GGAGTAACTGGTCTTCTAGATCACAGATTGGTCTCTGATCACTGGAAAGTACTAGTGGGCTGTGCAGGGAAAGTGGACTATCCCTTCTAAAT  
12301 AAGTAGCAACATTGGTTATCTAGTCAAGGGGAATAATTCTCTTGTGCACTTCTCAGAAATATGACTACTAACGGAAAATGAACTCAGGT  
12401 AGAGTATGATGCTCTCCCTTGGCCAGACATGATTGGATATAATGCTTATTAGTGTACTCTGTGGACTGTGATATAAGTTTCTCCATAATTCC  
12501 TCTTGGATGAGCATTTATTAGCACTGTATTAAAGATATTAAAGAACCTACTGTGCTAAAGCTGGTAGTTGGCTGGGAAACAGTAAAGTAGA  
12601 CAGTATTCTCTGACTGATCTGAGGTTTACTGGTAAACACATTAAAAAAAGATAAGAGGCTGATTTAGAAAGGCTATAAAGGGCTCTGT  
12701 AGGAATATATAGCAGACATATACTGTGCTTGGTGGAGCAGGTGGGGGAGCACATAGGATAGAAAGGACTTCTGAGGAATAATCATTCAACTAA  
12801 ATACCTACTCGGCTATTCCGTTAGAATGAGGACTCTGTGATCAGGCTGGGAGTCTGTTAGACCTTCTGTGCTATTCACTCATTTAAAGGGCTAATA  
12901 TTACCAACCTCACAGTGTGTCGGACAACACTGAGTGAGCACAATGCAAGCATTGAAACAAATAGTACCTGGCACATAGTAAGTCAACTATTAG  
13001 TCATTATTTTTATGACTTTTATTGTGCCAGCTACTGGAGATTAGTATTGAGACACAAATTGACATTTTCTACTACATCATAAACC  
13101 TAATTGATGCCATTTTTTTTTTTTTTTGACGAGGTTCTCTCTTGTGCCAGGACTCTGGCTATTCTACATCATCAACCC  
13201 TCCACCTCCAGGTTCAAGCAATTCTCCTGCCCTAGCTCCCGAGTAGCAGGATTACAGGCATGCCACCATGCCAGCTATTCTGATTTTATA  
13301 GAGACAGAGTTCTGCTAGTGTGGCTCAGGGCTTCTGCAACTCCGCAGACTCCGCAGACTGGCTGATCCGGCTCCCAAAGTGTGGGATTACAGGGTGA  
13401 GGCCTCTGCCCGAGCTTGTAGATTTAGAATAGGAAAGATTCGAAATAAGTGTGCAATTTCACAGTTAACCTGTATTGTGCCCTGG  
13501 GCACAGTGTCTACTTCTGTAATACTAGCACCTGGAGAGCTGAGGTGGATAATCATTGAGCCCCGAAGTTGAGACAGCAGCTGTGACACACAGCAAG  
13601 ACCCCATCTACCATCAAAACAAACAAATCTTGTGCTATGAGCTGGCAGAAATGTTGAGATCTTGTGACATTTTAAAT  
13701 TTATATTGTGAAACTTGAGACACTTATAATTCTGCTCTTGTGCAATTACTGCTGCTTGTGAGCTGGCAGAAATGTTGAGATCTTGTGACATTTTAAAT

e02

13801 TTCGCATTTCTTGACAAATGAGTTAGTGAAAATGTCATTGATAACCTGAGAACTAAGAGCTTGAATGACTTGTGTATTCCTTTATAGACCAT

- - -

13901 TTAATTGGCAGAGCGGAAAGCTAGCGCCATTCAATAGTAGAATGTGATCCTGTACGAAAAGTAGTGTACGAAGTCGAGGATTGGCTGACAAGAG

e02

14001 CTCAAGGAAAACATACTTTGATATGGTAACATGGTCAATTCTTTATTATCCACTAATGTA  
14101 ATGGTGTATACTTAGAAATTTCAGTTGTCCTGAATTGTCAGATGGCTCTAGTGGGCTGAATT  
TAACATACGAAAAACAAAATTATTAA

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14201 AATGAGTAATTTCAGGGTGTGATTTTTTTTTAATTTTTCTCGTAGGTGTTGGAGCATCTACTAAACAGATGTGATGTTACCGAAGTGTTGTTGT

e03

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14301 CCAATTCTGGATGAAGTTTATGGGCTATAATTGCACTATTTGCGTAAGTAAAGGGTGTCTGATTTAAGCTAAATGCTTGTT
14401 TTTTGTGTTGTTGTTGTTGAGACGCCGCTACTCTGTCGCCAGCTGAGTCGCAATGGCCGATCTCGGCCTACTGCAGCCTCTGCCCTC
14501 TGGCTTCAACCAATTCTCTGGTTCAGCCCTCCAAAGTACGTCGGGATTACAGTCGCTGCCACCATGCCCTAAATTGTTAGTAGAGACGGTGG
14601 TTTCAGTGTGGCAGGCTGGTCTGAACTCCGGACCTCAGGTGATCCGCCACCTGGCCCTCCAAAGTGTGGGATTAGCTGAGCCACTGTG

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e04

14701 CCTGGCTGTTTTGTCTAGTCTATCACTAAGCTCATATGGGTGCATGTTCTTTTGATTAACTTGTAACTTTACAGGTATGCCAAA

e04

14801 CTGGCACTGGAAAAACTTTACAATGGAAAGGTGAAAGGTACCCATAATGAAGAGTATAACCTGGAAAGGGTATTATTTGTTTAACACATACTTTATCTCT  
14901 AAATGTGACTGAAATTAACTGTATAAACATGTTGGGGCTTGAGCATGACAGTACCTATGTCAAATGAACTTAGGAAACACACT  
15001 ACTACATGAAATTAAAGTCATGCTATGCTACCTGGTTAAGAACAGCCTCAATGGAAAGGAGAACCAAATATATGCGCACAGTTATGATAAAAG

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15101 AGGAGTCTATTTATGACAGAATGGTTGGAGCAGAATTGTAGAAAAGTGGAAATATGAGTGAAAGCTGAAGGCAGGGCTTGTATTGAAGGAATG  
15201 GGCTTCAGAAAGTGTAGCTGCCAGGGAGTAGTACTTATTCTAGATGATCCTAAGTGTTCAGAAAGAATTAAAGTGAATGTATTGTTAATATTGCA  
15301 GAAAGCATATACTATGTGTTAACAGATTCTCATGAATTAAAGTGTAACTAGTGTGTTAACATAAGAGAGAGAACCAACTGGAAGAAGTGAACCA  
15401 GACAAGTTGAATAGAGCTGAAGTGTAAAACCTTTAAAAAAAGTTACTTTAACATAATTGTAGTGTGTTAACATTAACTGAGTAA  
15501 ATTGGTCGGGACCGTGGTCATGCCGTAACTCTAGCACTTGGCAGGCTCAGGCCGGCAGATCACCTCAGGTCAGCAGTTCGAGACCAGCTGCCAA  
15601 CATGGTGAACCCGGCTCTACTAAAAATACAAAATTAGTCGGTGTGGTCATAGCTGTAATCCAGCTACCTGAGAACAGGACTCTGTCTCAA  
15701 AAAAAGAACAAAACAAAACAAAACAAACTGTTAACATAATTGTGTTAACAGGACTTAACTTAAATTTTTTTTTTTTTTTTTTAAATTTAAAGTGTGGGG  
15801 TCCCCACTGTGTTCCCCAGGCCAGTCCTGAACTCTGGGCTTCAGGAGTCTCCCACTTCAGCCTCTGAGTAGCTGGGATTAGAGGCACATACTACCTTG  
15901 CCCAGCTAATTTCACCAATTATTAGCAGTGTGGTAGAACCTTCTCTAGTGGTACATAACTATTAGCTTAACTACTTTAACATATAGATAA  
16001 TTATGAAATTGTTACCATAGGGAGATATGGAAATTAGGCTTAAGCATGTTCTGGCTGGCAGAATTATGGAACTTGGCTTTTTTTTTGAGAGCAGGACTCTC  
16101 GCTCTGTCGCCAGGCTGGAGTACAGTGGCTCGATCTGGCTCAGTGCACCTCCACCTCCGGGTTCAAGTGATTCTCTGCCCTCAGCCTCTGAGTAG  
16201 CTGGGACTCACAGGTACATACCAAGTCGGCTAAATTGTTAGTATTCTAGAGATGGGTTTACCGTGTCGCCGGATGGCTTGTGATCTCTGAC  
16301 CTTCTGTGATCCACCTGGCTTGAACCTCCAAAGTGTGGGATTAGGCGTGGCAGCTGGCCAAACTTGGCTTTAACTGAGATGAGATTCTCCATTG  
16401 GTTTCTATGTAATGCTCAGGGATGAAGATGGCTAAGAACITGTGCAAGCTTGTAGAGGAGTGTGAAAGACTAGTGTAGAACAGACTGTGTTAAATGACTTCT

FIG. 3C

**Heller Ehrman White & McAuliffe, LLP**  
Sheet 28 of 113

**Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases**

**Serial No. To be assigned**      **Applicants:** Becker *et al.*  
**Date of Filing:** 6/18/03      **Attny Dkt No:** 37481-3308B

FIG. 3D



Heller Ehrman White & McAuliffe, LLP

Sheet 30 of 113

Title: Genes and Polymorphisms on Chromosome 10

Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned Applicants: Becker et al.

Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

26501 AACAGGCCAGGGCACGGTGGCTATGCCCTGTAATCCAGCATTGGGAGGCCAGGTAGCGGAATTGCTTAGATCAGGAGTTGAGAACAGCCTGGCTA  
26601 ACATAGTGAAACCCCTCATCTCTACTAAAAATACAAAATTAGCTGAGCGTAGTGCAGCTGAGATCGAGCCACTGTACTACAGCTGGGAGACAGAGTCAGGCCTGAGACAGGAGAA  
26701 TTGCTTGAACCTGGGAGACAGGTTGAGCTGAGATCGAGCCACTGTACTACAGCTGGGAGACAGAGTCAGGCCTGAGACAGGAGAA  
26801 AAAAAAAGTAATAATACAGAGAAATCCCTTGTACATTGGACTATAGAATATTACACGGGATATTGATATTAAATAACAATCCACTATCTTCC  
26901 CAATTTCTCATCTGTATTTAGACAGCTTGTACATGCTACAGCTGAGCTTGTACATGCTATTCACCCACCATCTCTCTCTGTAACAGATACAGTGAACAGTCTCC  
27001 ATCACCAAGGAGACCTTCTATCTGTCTTGTACACCTTCTCCACCATCTCTCTCTGTAACCTGACTTCAACTTCTGCTATCATTC  
27101 AGACTCTTATTGATTGAAATCATACATATTGTAAACAGGTTGAGATGGCTTATTATTTATTATTTATTGAGATGGAGTCTACTCTGGCC  
27201 CAGGCTGGAGCTGAGCTGAGCTCACAGCACCCGAGCTCCGGGCTTACAGGCTACAGCAGACTCTCTCTCTGAGCTTCCAAAGTAGCTGGGATTACA  
27301 GGTGTTGCCACCATGTCAGATAATTTTGATTAGTAGAGACGGGTTTACCATGTTCCCAGGCTGGGCTCAAACCTTGACCTGTGATC  
27401 CACCCACCTTGGCCTCCAAAGTGCTGGGATACAGGCTGAGCCACTGCACCCAGCAGACTTCTCTTGTACTAAGTAGTACTAGTGTGATGGCAGTA  
27501 TGATACCATACAGCTTTGTAAACCATCTTGTAACTATGAAACATATGAGCTTACAGCTTGTCTTGTCTTACACAAAAACTGCTATTGACATTC  
27601 ATTATAGGTTTATGAAACATAATTCTCTGTTGAGATGGCTTACAGGTTGAGATCTGAGCTTCTACATCTCCACACAGCATTGGTGGTGAATTTT  
27701 AGGAACTGGCTGTTTCAAAATTGGCTGTACATTTCAGTGTAGTGTGATCTGATTCTTCACATCTCCACACAGCATTGGTGGTGAATTTT  
27801 ATTATAGCTTCTGTAGGTGGTAGGTGAGATATCTCATTGGTTTTAAGGCTAATGAGTTCTAAGGCTAATGAGTTGAGTGTCTTCTTAAAT  
27901 GTGCTTATTGTGTTATATATATGTTAGTATAGCATATACATATGTCATATTGATATAACATACATGTAATATATATTGATATACTTCTTCAATT  
28001 ATAATTTATGGGAAATCTGTATATTGTCTGAGTTTACCATAGTCTTGTGACTGTTCTCTGTTCTGTTCTGTTCTGAAATCTG  
28101 GTAGCTGAATCTGGCTTGTAAATTCAAGTTTGTCTTATTTGGCAAAACTAACTCATAGCAGTGTGCTTCTGTTCTGTTCTGAAATGAGTAT  
28201 GTAATGTCGTTCTTCTTCTTCTTCTTGTGAGCAGGACTCTGCTGTGAGCTTACAGGCTTACAGGCGCTGTGACCCAGGCTACTG  
28301 CAAGCTTCACTCTGGTTCAACACCATTCTCTGCTTCTGAGTACTGGGATACAGGCGCTGTGACCCAGGCTTAATTCTGGTATT  
28401 TTGAGTAGAGCACGGGTTCAACCATGTTAGCTGAGGATCTGAGCTTGTGACTCTGACATCTGCTGAGCTTGTGAGCTGGGATTACAGG  
28501 CGTAGGCCACCCGGCTCCGGCAAGAGGTTAGCTTCTTGTAGGAAAGGAGCAGGACATGCTTGTGATTAATTCTCTTGTGAAATATGAGT  
28601 TGTTTCTCTAGGTTCTTAGTGTCTTGTAACTCTAGTATTGTTCTGCTGCTGATAACAGACATCCCTGGGAGCTTACAGGCTTACAGGTT  
28701 ATCTTAGGCCAGGGTATGTTCTGCTGCTGATAACAGACATCCCTGGGAGCTTACAGGCTTACAGGCTTACAGGCTTACAGGTT  
28801 TTCCACATGTCGGGAGGCTTCAATATGAGGCCAGGAGCAGGACATCTACATCTGGGCTGAGCTTACAGGCTTACAGGCTTACAGGCT  
28901 GGAGAAACTCTGTTGTTAAACCATCAGATCTGAGACCCATTCTGTAATGAGAACAGCATGGAAAGATGCCCTACGATTCTAGTCATCTCC  
29001 CACAGCTCCCTCCCGAACCCGGTGGAACTAACAGGCTAACAGGATGAGATTAGGGAGCACAGGCAAAACATTAAGGGTTACATCTTCAA  
29101 GTGGCTTACTGAGTCTTGTGAAACATAGTGTGTTATAAGGAATCTGTTGATTTAGTGTGAAATTACTCTACCAACCTGGGACTGGAGGTTG  
29201 CCTAGCTCTGGAATCAGATGTGTTATAAGGAATCTGTTGATTTAGTGTGAAAGACTTATTTCTAAACAAATTATGTTAAAAGGACT  
29301 CGAAGTCCATATTCTAGAATGAGTGTATTAAAAGGAGCTTGTGAAAGACTTATTTCTAAACAAATTATGTTAAAAGGACT  
29401 TTATCATACTCTTAACTTAAAGACATAAAAGGCTAACATTATGTTGAGCTTCTCCAAACTGAAATGAAAAGACTAACAGT  
29501 ACACCTACAACATCCCTTGTAGGAGTATACGGAGGAGATAGAACGTTAAAAGAGATCTTGCTGCAGCCGTGAGAAAAATGGAGTGTATATT  
e10

29601 TGAAGAAAATTTAGTAACCCCTGGCTATGGAGTTAATTCCAAGAATAAGCATTCTGATAACAGGCTATTGAGTAAACACTATGAGCTAAG  
29701 TAAAATCTTATATCCACTGCCATAAAACTCATTTGTGTTGTTCTTGTAGACAAGGCTCGCACTGTCACCCAGACTGGACACAG  
29801 TGGCACAATCTGGCTCACTACGCTCTCACTCTGGCTCAAGCAGTCTCTGCTGAGCTCCAGCTCCAAAGTAGCTGGATTATAGGCTAGGACACAC  
29901 ACCCTGTTCTTGTGATTTGGTAGACAGGTTTACCATGCTGCTAGGCTTACCTGTTGAGCTTACAGTAAACAGTAGCTACAAACACTTT  
30001 TAAAGATCTTACTAATTCTTAAATATTAAACTATGAACTTACAGGCTTACCTGCTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGT  
30101 CTCACTGTTATCTTAAATAATTATAGTACAAGGCTGGATGTTGCTCACACCTGTAATCCAGCCTTGTGAGCTTGTGAGCTTGTGAGCT  
30201 TGAGCTGGAGATTGAGATCTGACCAACAGGAAACCCATCACTACTAAAGAACACAAATTACCTCTGCTGAGCTTGTGAGCTTGTGAGCT  
30301 AGCTACTCCAGGGCTGAGGCAAGGAACTTGTGAAGCTGGGAGGGGTTGTGAGCTGGCAAGATGCCCATGTCACCTCAGGCTTACAGG  
30401 AGTGAACACTGCTCTCAAAATAAGTAAATAAAATAGATAAAATAAAATAAAAGTGGCGCATAAAATAAAATAAGGCTGGGCCGTGCTCCGCT  
30501 AATCCCGACTTGGGAGGTGAGGAGCAGACCTGGGAGGTGAGGCTGGAGACCCAGGCCACATGGTAAACCCGGTCTCACTAA  
30601 ACTAAATTAGGCCAGGCTGGGAGGTGCTGAGGCTTGTGTAATCCAGCTACTGGGAGGCTGAGGAGAATCTACTGAAACTCTGGGAGGAGGTGAG  
30701 GAGCTGAGATAGCAGGACTTCCAGCTGGGAGAACAGAGCGAGACTCATCTCAAAGAAAAGAAAAGAAAATAATAAAAATAAAA  
30801 AATTATAGTACTAACTAACAGGCTGGGAGTTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCT  
30901 TTATAAGAAAAGGGTTTAACTGGCTCACTGGCATAGGGCATGGCTGGGAGGCTTGGAGAACTTACATCTGAGCTTGTGAGCT  
31001 AAGGAGAGCAACATATTACATGGGCCAGGAGAGAAAAGTGAAGAGGAAAGCACTGCAACTTTAAACACCAAGATCTGTGAGACTCATTC  
31101 ACTATCTGAGGAACTGGGAGGCAAGGGGAAAGTCTCCATCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCT  
31201 TTTCAGTGGGAGACAGAACCCAGCATACAGATCTGTAATAGTACTCTATGCACTTGTGAGCTTGTGAGCTTGTGAGCT  
31301 AAAGATACAGAAACTATCTTACATACAAGGATCTTCTGTAATTCACTGTAACCTCACCCTCATTTTCATGATTCTAACCCCTGGCAACCA  
31401 CTAATCTGTTACTTAAAGGCCCTGGACTAATTGTTCAAGGAAAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCT  
31501 GGGAGAGGAAGCAACTGGGATGCTCAAGGACTATACTGGAAATTCCTGATGTTCTTGTGAGCTTGTGAGCTTGTGAGCT  
31601 TTTAAACTTAATAGTGAATAAAAGATATTAGACCTAAATAACAGAACTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCT  
31701 TAGTATTAATACCTTAAACTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCT  
31801 GTAAAGATTGTCGCTTAGTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCT  
31901 CCCTGAGCTTGTGAGAAATGATATTGAGTTATGGAGGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCT  
32001 CCATGATGAGAACTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCT  
32101 CAGGAGTTGGCTACATATTGTGACCCAGATAATAACCATAGAACCCGATGGCTAGCTTGTGAGCTTGTGAGCT  
32201 AGAGGCCAGGTGACTATTGTTCCCTCTCATGTCCTGCTCAGGTTAGCTCTACTTAAAGTGTGAGAACCTGGCTTGTGAGCT  
32301 CTATGTTAGTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCT  
32401 CTGCTCTGTCACCCAGGCTGGAGTATAGTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCT  
32501 TAGCTGGATTACAAGCACCTGCCACCATGCCAGAAATTCTTGTGAGCTTGTGAGCTTGTGAGCT  
32601 GAATTCTGGCTCAAGTGTCAACTCACCTGGTACTGGGAGTTACGGGATGTCGCACTGCCAGGCTTGTGAGCTTGTGAGCT  
32701 TGTTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCT  
32801 GCTATGATGAACATATGTTGTCATGTGTTATGTTGAGAACAATTATGTTGAGCTTGTGAGCTTGTGAGCT  
32901 CTGTTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCTTGTGAGCT

FIG. 3F

**Heller Ehrman White & McAuliffe, LLP**

Sheet 31 of 113

## **Title: Genes and Polymorphisms on Chromosome 10 Associated with Alzheimer's Disease and Other**

Neurodegenerative Diseases

**Serial No. To be assigned**      **Applicants:** Becker *et al.*  
Date of Filing: 6/18/93      Attn: Dkt No. 32481-3308B

Date of Filing: 6/18/03 Attny Dkt No. 37481-3368B

33001 CCCAGGTTCAAGCACTCTTACCCGCTTCCAAGTATCTGGATTAGGACCACCCACCTGCTAATTTCATTTTGATTTAGAGAT  
33101 GGGGTCTTACCATGTTGGCCAGGTCTGCAACTCTGATCTGCCAACCTCGGCTTCCAAGTGTCTGATTACAGGTGAGCACCC  
33201 ATGCCCCTGGCGGATTTCTGTTAAAGTCTTCTGAGAAGTCGCAAACACTTCTCATAATGGCTGAACTAATTTCATTAGTAGCATATAAGCGTCTCC  
33301 TTTTCTCCAAACATTATCACCAGTGTGTTATTCTTCTGTTAAATAATGCGATTCTGACTGGTAGATGTTCTCATGGTTGTTGATTGCAATT  
33401 TCTCTAACAAATTATGGTTAACAGATGTTCTATGCTTCTGGACCATATATGTTCTTGGAAAATGTCACCATCTTGGCCACTTTTTTT  
33501 TTTTTTGTAGACAGACATTCTGTTGCCAGGCTGGACTGCAGTGTGGCACGATCTCAGCTCACTTCAACCTCCACTGGTTCAAGCGATTCTC  
33601 CTGGCTCAGCCTCGAAGTAGCTGGATTACAGCTGCCAGATGCCCGCTAATTCTGATTTTTAGTAGAGATGGGATTTCACCATGGTGGCCA  
33701 GGCTGGTCTGGATTCTCTGACCTCAAGTGTCTGCCAACCTCCGCTCAGGTTCTGAGTCTGGATTACAGGTGTTAGCTTCCGGCTGGTTATAT  
33801 GATTTTACTTACTGGAAAACCCCTAGTCTCTGCTTCAAGCTTCTGAGTCAACAAATTAAACCGAGATTCTGGATACACAATCATTGACTAAA  
33901 TCAGTAGCACTTCTATATACCAAAATAGTCCAAGCTGAGTGCACAAACAGAATGCAATTCTTCAACATTAGCACAACAAACACTTACCTAGGAAT  
34001 ACAACTAACAGAGAGGTGAGAGTCTCTAGCTGAAGATAATTAAACACTGCTGAGGAAATCAGAGTGCACACTAACAAATGGAAAAACTTCCATG  
34101 TCATGGATAAGAAAGATAATTTGTTAAATGGCATACCAACCAAAAGCTTACAGATAATTAACTGCTGTTCTCTCAACACTACCAATGACATCTTC  
34201 CAGAAAAAAACTATTGTAATTCTAGTGAACTGCCAAAGGCCAAATAGCCAAAGCAGTCTAACGAAAGAACAAAGCTGGAGCATGCATTAC  
34301 TGACTCTAAACTACACAGGGCTACAGTCAACAAAACATCTAGTGTACTGGTACTGGATTACAGGAAACAGCACAGGATGGCAAGGAAAT  
34401 AAAGCCACACACCTACAGCCTTATGGATCTTGCAGACATGCACTGGGATAAAACTGCCCTGTTCAATAAATGCTGGGATAACTGCTTATCCATG  
34501 GCAGAAATTGAAACTGGACCCCTTCTTAACGCCCATATACAGAAATCACTCAAGATGGATTAAAACCTTAAATGTAACCAAAACCT  
34601 TGTTAAAAACACTAGGTGTTGTTCTTAACACATGAGGCATAATCTGAGATGAGTTTGTCTGAAACAGCTTGGAAATTAGTACAGTCTCAGAG  
34701 AAGAATCACAAAACACTAGGCCACATTAAAACAGGATAATGCTTATTAGCCTTAAGGCAAGCTTAAAGCATATTCACAAATCATCTCATC  
34801 ATACAGTAACAACTTGTATTACCCCTTGCACTTCAACTAATAAAAGCATTTCAAAATATTCCGTTTACATAAAAAGCTTATTTCTATT  
34901 TATTTCATTCTTATTGAGACAGACTCCTACTCTGTCACCCAGGCTGGAGTCTGGCTACTGGCTACTGCAAGTCGCCCTCTGGTTC  
35001 ACGCCCTACTCTGCCCTCAGGCTCTGACTAGCTGGGACTACAGGTGCCCCCACAGGCCCTGTAATTCTTGTATTCTTGTATT  
35101 TCACCATGTTAGCAGGATGGCTCTGATCTGCTGACTCTGTCATCTGGCTATCTCCCGCTCGGCCCTCCAAAGTGTCTAGGATTACAGGCTGAG  
35201 CTCGTTAGAGGATCTTAAATAAAAGCTAATATTCTCATAAAAGACTATTAGAATAACTCTCTTCTAGCTTTCTAGCTTTCTTCTTCTTCT  
35301 TCAACAAATCTCTAGCTTAACCTTAAGGGAATTGTTAGCTTACAGGAAAGATCTTCTGATCTTACAGCTTCTTCTAGCTTTCTTCTTCT  
35401 AAAGAATTAGATGAGCAATACAGGCAATTCTGAAACTGACTTAATCTCAAGAAATCAGAGGCCATTAAAGTGTGAGACGCTGAGCTT  
35501 TGCGCTTGGAGAAAAGCATCTCTTATTCTGACTTCTGACTTCTGTTGACTTCTGACTTCTGATTTTGTGAATTAGAATTTTGTGTTAGT  
35601 TAAAGAATCTTCTCTGCTTCCATCTCTGCTTCTGTTGAAAATAGTGCATCTTCTTCTTCTGATTTTGTGAATTAGAATTTTGTGTTAGT

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C  
35701 TAAAGTTCTTATCTTCTTCCTGGATCTTTCTCCGTGATATCTGTCAATTGTATTATTTCTCAAATGCTAGTGATT  
35801 TTGGCTGGAATTAGATGGATTAGAAGCTTGTACATGGGTGAGGATTAGGACCTGAAAGTTCACTATAGATGAAAAGTGGTCACTGCTTAAAG  
35901 TCTGGGCTTCATCAGATCATCTTCTTGTGGATTCTTGTCTAGGCCCTGAGTTCTTCTCAGAACGTTCTGGGAGATT  
36001 TTCTAGCTGCTCATTTTTGATTAGACTGGTATAGGGGGCTGAGGATTCCATCATTGTTGTAGTACATTACACTTAATGCTATTCTACCTCC  
36101 AACCTCTACAGTCCATGTGCTAGTGAAGCTGAAACCTGGAATTCTGCTGCAATTCTATAGACTGTTGTCAATTGGAAGTGGTGTGGGAGAC  
36201 TTGGTGGGGTGGGTGGTGTGTGGGCTTGGAGGACATTGGAGACTCTGCAATTCTGACTGTTGTGACTGAACTCTTAAAGT  
36301 ACAGGGACATCCCACATAAGAAATTATTGTGATCCACTAGCTGAGGCTGAGAAACTCTGCCTGAGACGTAATCTCTTGTCTCATGAGGGTTATGCG  
36401 GTGGGGTGAGAGTGTGTGTTGTGCGTGTGAGCAGCAGGGCTTAATCTCTGTATACATACATTAGCTTGTCAACCCCTAATCTTACCC  
36501 TTCTCTCTAAGACATCTCGCTCCACTGCCCATACCTTGTGGGCCATATTATATTCTGTATCTCTGTATTAGACATCTAGGTGCG  
36601 ATTCCTCCCTCTCTCTACTTGTAGTATAGTCCGTCTCTGTAGCTTCTAGCTTCAATCTGGAACACACATGCTTTCCTCATAGGTAGGGAT

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c

36701 TCTTAGTTACAATTGAGGCCAAGGGAAAAATTTTCAATTATAAAAACAGACAAGGAATAATTGTTCTTGTAATTGTATTGCTTATTG  
36801 ACACAGGTATCAAGTGACACTTGGGTATCAAGTGATGGTATAATGTTGGAATGAGTTGTGTAGCTGTACAATTGTGTTAGAATACATTTATAGG

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36901 AGTTAGAAAAAAATTTAAGTGTAACTCATTTAAACTTTATTAGTCATGAGTGAAAAATTAACTGTTCAAGAAGAGCAGATTGAGATTGAT

ell

37001 TGAAAAAAATTGGTGTCTGGAGGAGGAGCTGAATAGGGTAAGCACTTAAAGTCATAATTACTCTTATGCAAAGAACAAATTATTTGAA  
37101 TGAAAGATCTAATTTTTCTCCTAAGAGTTTTTTTTAGACGGAGCTCGCTCTGCACCCAGGCTGGACTGCATCTGGCTACTCG  
37201 TAACTCTCGCTCCAGGCTCAACGGATTCTCTGCCTCACGGCTCCGGAGTAGCTGGGATTACAGGTGTGACCACCATGCCTGCTAATTTTTGTA  
37301 TTTTTAGTAGAGACAGGGTTCACCTAGCTGGCAGGCTGTCTGAACCTCTGATCTGCCATCTCAGGCCAAATAGCTGGATGACA  
37401 CGCTGAGCACCAGTCACCCAGCTTCAGATTTTGAAAGAAGATTTTGTGCAACCTTACTAGAAGTAGTTATCATGATTT  
37501 TTTTACTATCATTAATCACATCAAAAGCTGACAGCTTATAATTAAAGCATTTGAAAGAAGATTTTGTGCAACCTTACTAGAAGTAGTTATCATGATTT  
37601 AATAGTGAATGCTGAAGCAGTTTGTAAACATGTTTACAGATGAAGGAATACAGATATTGGAGAGACTGGATGTTAAATAAAAGTAATAACTAGGG  
37701 TAGGCCAAGGGCTGCACCTTCAAGGCCAACCTCATTTAATACCTTTAATTATTATTTTAATTTTGTAGACAGGGCTCTGGTGTGATGCCAG  
37801 GCTACAGTCAGCTGCTGTAATCATATCTTACTGACGCCCTAACCTTCTGGCTCTCAACCAACTCTGCCCTCAGCTCTGGACTGCTGACCA  
37901 TGCACTACCATGCCCGCTAATTATTATTGTAGAGATGGAGTCAGTCCTGCTATGTGCCCTGGAGCTGCTCAAAACTATGGGCTCAACTGAT  
38001 CTCTGCCTTGGCTCCAGAGTCGGGTTACAGGTGTAAACCCACTGCTGCCCTGGAGCTCAAAACTATGGGCTCAACTGAT  
38101 GAAACTGAAATAACTACATCACAGGACCTTATTTAATCTCAAGGATTTGTGACTGAAATTACAGGAAAGAACAGGATCACATTGTGTTAAC  
38201 TACCGGTAACCTCTACAACTTTGTGATGAAATAATTGTTTCAATCTTATGAACTAGCTGATATCCTACAGGCCAGCTAGCTTTT

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38301 TAAATTCTTATTTAGGTTACAGAGTTATGGATAATAAAAATGAACCTGACCAGTGAAATCTGACCTGAAAACACAAGAACCTGAAAC

**FIG. 3G**

**Heller Ehrman White & McAuliffe, LLP**  
**Sheet 32 of 113**  
**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**  
**Serial No. To be assigned      Applicants: Becker *et al.***  
**Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B**

e12

38401 CACTCAAAACATTGCAAGAACTAAATTACAACATTGTAAAGAAGAATATATCACATCAGCTTGGAAAGTACTGAGGAGAAACTTCATGATGCTGCC  
e12

38501 AGCAAGGTTTGTCCCTTGTTGATTGTAACCATATAAGTAGAGAATGGTAGAAAAAAATTCTGTGCTTAAGCATTAATATTCTGTTTACCCACC  
38601 CCAAATGGTATTCTGCATTAAACATTATTTACTATTCTACATGTTTCTCACTGGAGATGTCGACTTATGAAAAAAACTACTCTGCTGCC  
38701 TGGAGTTTGAAGAACATACTTACGGGGAGTGGCTCACGCCATAATCCAGCATTTGGGAGGCCAAGGTGGGATGACCTGAGGTCA  
38801 GGTGTCGAGACGGCTGACCAACATGGAGAAAGTCTCACTGGAGGGAGGGTTGGCGTGGCCAGTGGCTGAATCCAGCTAATCCAGCTAC  
38901 GGGAAAGCTGAGGTGGAAAGATCACTTACGGGGAGGGAGGGTTGGCGTGGCCAGTGGCTGAATCCAGCTGGGCAACAGGCGAAA  
39001 CTCCGCTCTCAAAAAAAAAAAAAAGAAATAGAACATAACTTTATAATATTTGTAGACATTAGAATAGTGTGCTGTGATGCTTTCTGT  
39101 GGGGATGATTGAAACCTAATTAGTCATTAAGAATTAGTGTGCTGAGGCTGGCTCACGCCCTGAATCCAGCACTTGGGAGGCCGGAGGTG  
39201 GGTGGATTGCTTGGAGGTAGGTTCTAGACCGAGCTGACCAACATGGTAAACCCCATCTCACTAAAAAAACTACAAAAAATTAGCCAGGCTG  
39301 GTGGCACATGCCATAATCCCATCTACTCAGGAGGCTGAGGCAAGAGAACTACTGAAACCAGGAGGAGGGTTGAGTGAACCGAGATCATGCCACTG  
39401 CACTCCAGCCTGGTACAGGACAAAGACTCTGTTTCAAGAAANNN  
39501 NNN  
39601 ATTTAATTTTTTTTTTTTGAGACGGAGTCTGCTCTGTCGCCAGGCGACTGGGACTACAGGGCCGCCACCCGGCCGCTAATTGTTGATTAGT  
39701 CTTGGGGGGTTTACCTTGTAGCAGGATGTCGATCTCTGACCTCTGACCTCATGTCACCCACCTGGCCTCCCAAAGTGTGAGGATTACAGGCGTGAGGCA  
39801 GACGGGGTTTACCTTGTAGCAGGATGTCGATCTCTGACCTCTGACCTCATGTCACCCACCTGGCCTCCCAAAGTGTGAGGATTACAGGCGTGAGGCA  
39901 CCGGCCGCCCTTAATTTTTATTAGTGTACTTTTTTTGAGACAGACTCTGTTTAGGCCAGGCTGGAGTGCAGTGCATCATCTCAGTT  
40001 CACTGTAACCTTGGCTCCGGCTCAAGCATTCTCCCGCTCACGCCCTCCAAAGTGTGGGATTACAGGCGCTGCCACACCCAGCTAATTGTTG  
40101 ATTGTTAGAGACTGGTTTACCCATGTGGCAGGCTGCTCAACTCTGGCAGCTGGGATCACCCTGCTTAGGCCCTCCCAAAGGCGTGGGATT  
40201 ACAGGTGTAAGCCACCACGTCGGCCATTAGGTGTACTCTGAGGAAATAGAACATAGAAGGAAAAAATTCTGAGGAACTATGGATAAATTAGCATGACT  
40301 ACTGAAAAAAACTGTTTCCCTGTTGAGATGGCTACAGGAAGGAAATAACATTACTGGGCACTGGATAAATTAGCATGACT  
40401 TCTGATACAATGCTAAATTGACTTTTTTTGAGACAGACTCTCTGTCACCCGGCTGGAGTGGCAGTGCACAACTCTGGCTACTGCAA  
40501 CCTCCACCTCCAGGTCAAGCAATTCTCTGCTCAGCCTCTGAGTAGCTGAACTACAAGTATGACCACTTATGAGATAATTGTTGATT  
40601 GTAGAGACGGGTTTACCATGTTGGCCAGGCTGGAAAATTACTAGTGTGATGACCACTTATGAGATAATTGTTGATT

e13

40701 TATCCATTGCTAACACTTATTAAAAATATAGCTCTTAACACAGTTGAGAAACTACAAAAGATGATCTGGCTCCAATTCAAACGTGATCGT  
e13

40801 AAGAAGGCAGTTGACCAACACAATGCAGAACGCTCAGGATATTGGCAAAACCTGAATAGTCTGTTAATAATGGAAGAATTAAGGATGGCA  
e13

40901 GCTCAAAGCAAAGGCCATGCTAGAAGTACATAAGACCTTATTGGTAAGTTCAGGCTTCTGTTAGTCTGATGTTAAGTGTAAATGTTGATTC  
13i.D+70  
(+AATT)  
/

41001 AAAACTGATAATTGAAACATAGATGACGGGTGTCACCAACTCTCACCATGCAAAACTATTGTTCAGGGTAAGGATAATGCTTTATTGCT  
41101 TGAATTAAAACAAATCTTTCTCCCTCCACCCCTCCCTGTATATAAATGTCATATAAAAGTAACTAAGTATAAAACGTTAGAAGTAG  
41201 AAGTCCTCTTTTCCCTGACTCGGCCCTCGACCTGGGTCTGACCATCTGGTATTGTTAAATTCTGGCCTTTCTGCAAATTGTTGTC  
41301 TAAACATTGCAACTTTTTGGGGGGCATATATATCTGATGGTTGCTATATTGTCAGAATATGTTGTCCTCATTGTTTAACTATTATCTC  
41401 CCTTTAGGAAAGACTGTTTATGTTGAAACTACTCTCTGAAATTGACATTGGGACATTGGCAAAATTGTCAGGAAATTCATAGACT  
41501 TAGTCTCACTAGCAAGCCTACTATTTGGTATTGATTCTCTGTTCTCTGAAACTTACCTGATATTGTTAGTTGAGA  
41601 GAATTAAATGAGAATATTCTAATTCTTGTTGTAATGAAATTAGTTATGGCTGATACACTTACAAATATGTTAAGGGCTACAGGAGCACTATAGAA  
41701 ATGTAATGATATTAAATATTCTCTGTTGTTGAGAGCTTAAAGCTGTTTAACTACAACAGGTTACTTGTCAACT

e14

41801 TCTTTGAAATGGTTGACGGTATTAAATATTTATGTCAGGTTACATTTCTGTTTTGTTATAGGTAATCTGCTGCTTCAGTGTCT  
e14

41901 GCATTAGATACCATTAACAGTACGGACTCTCACATCTATTCCAGAAAATGTGTACTCTGATGTTCTCAGATTAAATATGATACTAAAG

e14

42001 AACAAATCATTAGCAGCAGAAAGTAAACTGTAACAGGAATTGATTGTTAGTACATCCTTAAATATTGGTAAGGGTTGCTTGTATAAGTATTGA

14i.D+78

G

42101 TAAAATATTGAAAGGGTACATTGATAAGTCTTATAAACAAATGTTAAGCTGCTATTCTTCTCTGAGCTTACTAGACACAGTCATAGACACGTC  
42201 CTGTGAGAGACTACATATATATATTGTTGTTGTTGTTGTTGTTGAGATGGACTCTGCTCTGTCAGGAGTGCAGTGGCGTGA  
42301 TCTGGCTCACTGCAAGCTCACCTCCGGTTCATGCCATTCTCTGCCCTAGCCCTCCGAGTAGCTGGACTACAGGGCCACCCACACCCGCT  
42401 ATTGTTGTTGATTAGTGGAGATGGGTTTACCGTGTAGCCAGGATGGCTTGACCTCTGACCTTGTGATCCACCCGCTGCCCAAAGTG

**FIG. 3H**

**Heller Ehrman White & McAuliffe, LLP**  
Sheet 33 of 113  
**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**  
**Serial No. To be assigned      Applicants: Becker et al.**  
**Date of Filing: 6/18/03      Atty Dkt No. 37481-3308B**

42501 CTGGGATTACAGGCATGAGCACCCTGGCCAGGCCAGCCTCTCTTCTTTCTTGTATTTTATTTTCTAGCTCTCTCTCGGCTCACTGC  
42601 AACCTCTGGCTCTGGGTCAGGCTCTCTCTGGCCACGCCCTCCGGGAGTAGGAAATTAGGACATCTGGCCACCCGGCTCGGCTAATTTCTGGTATT  
42701 TTACTAGAGATGGTTTACCATGTTGGCTCAGGCTGCTCAAGCTCTAACCTCAAGCAACATCACCACCTCGGCCCTCCCAAAGCGCTGGGATA  
42801 CAGGCGTGAGGACCGCTGCCCGGCCAGAGATCAGTTATTTTAAAGACAGATCTCCACTGTTATTCTCTCCAGAAAGATTATTTCAATGTA  
42901 TGGAACTAATTGGAAACCTTTTCACTCATGTTGAGACATTAGGAGCTAGCAGTTAGTGTAGGCTCTTACATGACTAAAGGCCAAGTCTGACCA  
43001 CATGATATCAAGGACTCTGTAGTGGCCAGAAATTTGGCAAGTCACTTCTCCCGGGCTTGAGGCAACAGGAAGGGCTATTGGGTTAGCTGATT  
43101 TTTAAAACATCAGTAATATATGATAGTAATACTGGTCAAGAAAATATCTTGAATTCGGGACACATATCACTTCTAGGGTTAGATCTGTGCCCC  
43201 CCTCTGGGCCAACTAATTAATTTCTTCTCAGGACTCTTACATGGAGCTCATTCTAACATTAATGCTCCTTCAACTTGTGATTATATAG  
43301 TCTTTTATTTATAATGTATGGTTGGCTCAGGAACTCTTACATTAATTTATTTCTTCTTGTGCAAGACTCTTGGCTCTCCCTTTTCTAGCTAAC  
43401 AATATTTATTAACATTTCAAGTAATACTACAAATGTAGCTGACCCCTCTGCCCTAACCTCAGGCTTAGATGACATTATTTGATAGGTTTCTCAAT  
43501 CACCCAAAATTGACAAAATTTAAAGATACTCTGCTCAGTACTAATTCTTCAATATTGATCATTTCTTCAATTGATGACACTTCTGCTGCTGCT  
43601 CAGAGATAATTGGAGTTCTCCAGCACCTCTGAAATAAAGTAAATTATTCACAACTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
43701 TGTGACCAGGGCAGTGTCTCACACCTGTAACTTCAGCACACGCCGCTGGGACAATCAGAACACAAGCTTATCAGTTACATTTGTCTTATAGGG  
43801 GTACAGTTATGGTACCCCAAGACAAATTCAACATGAACTAACATCAAAAGTCATGGTACACATGGTAACTGAAAATTAAGTGTAGTGTACCAA  
43901 CATGTGATGCAAGAGCAGAAAAGTGGACCATGATATTGGAAAATCTACTGTAGATGAGCTGCTCAAGGTAGGGTGCACCAACCTTCAATTGAAA  
44001 TTGGTATCTGTGACACATAGTAAAGTGAAAGCACAATAAAATAAGCTATGCCGAAATTGATACATTCTACTTACCAAGTTACAAATTGGCTGAATA  
44101 AAAGAAAAGGGCATGTTGCTCTCACAAAATTAGTGGATGCTACCTTCTTCCAAAAGAATGCTAGGACCTAATAAGTATTACTAATG  
44201 TATTCTCTGTTAATCTCTCAGGCCATTCTACCAAAAGGAGTATAGATCAGATTTTCTTCTTAAATAATTCTTCAATCTACTACATTCTTAA  
44301 TTCTCTTCTGACAAAGACAAACATCTTCAAGTCTCTCTGATACATAAGGATGTAAGTCATCTAGATCTCAAGTTAACTACTTCCAGCCA  
44401 AGGGCTAATCTTGTGACTACTTGGTCTGCAGCTCTTGTGAGTGTAACTTAAAGCTTAAATCTGAGTGTAACTTCTTAAAGCTTAAAGCTTAA  
44501 ATTTATTTGGTGGAGTGTGCAAGTAACTTAACTTAACTGTCATCTTCTCTTGTGAACTTCTCTTAAATTAATGTTCTGCTGCT  
44601 CGTCGGCTGGCTCATCTCAGCATTTGGGAGGCCAGGTGGCTGGATCACTTGAGGTCTGGAGTCAAGGAGTCTGGAGACGCCAGCTGGCAACATGGTGAACCCGTG  
44701 TTACTGAAATAACAAACATTAGTGTGGCTGTGAGCAGGTCTGTAATCCGGCTACTTGGGAGGCTGAGGCTGAGGCTGTAATCTGGCTGCTG  
44801 GAGGTGCTGAGGCCAGATCACGGCTATTCAGCTCCAGGCCAGAGCTAACATTCTCAAAAGAAAATCTGTGTTCTGCT  
44901 C'CGGGCTGGAAAGAAAATTATATAATTGTAATATAAAATTATGTAATTGATTATCTGAGCTATAAAAGGAAATCTGTGTTCTGCT

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45001 GGGGCCGGGCGGTGGCTCACGCCCTGTAATCTCAGCACTTGGGAGGCCACGGGGGGCGATCACCTGAGGTCAAGGACTTCAGACCACTGGCCAAC  
45101 ATGGCJAACCCCCATCTCTAATAAAATCAAAAATAATTGGCTGGGTGTGGCTCACACTATAATCCAGCTACTCCGGAGGTCAAGGCGACGAATCTA  
45201 CTTGAACCAAGGGAGCAGAGTGTGCACTGAGCCAAAGATGTGCCACTGTACTCCAACCTGGTGCAAGATGAGACTCCCTCTCAAAAAAAA  
45301 AAAAGAACATGGAAATGAAAATGAAATTTCATGTCAATGTTCTACCAAAGTATTTAGATATCATTTAGAAAGTTTACAGAAAGTGGAAATATC

e15

45401 TTTCCTTAAGACCTATTGTCTTATTTCTGAAACCGATACTGACTCAAGCTGATCTTCTAAGTTCACTGGAAATGATTTATCCCCAAGTGTTGTCTAT

e15

45501 ACTGAAAATCAATAGTCAACTAACGCATATTTCAGACTTCAAGCTTCAATTGACAGTGCCGATAAGGTAAACAAATGCTATGTTCTAATATCTCAAAATTGATGT

e15

45601 GTTGTAAAGAAGGAAACTCATTCTGGTTCTCAAAGATAGAAGATCAAAAAAGGAACTAGATGGCTTCAGTATACTGTGTAACAACTCATCATGA

— — —

45701 ACTACAAGAAAAATACCATTTGTTCTTGGITGAGTCACAAAAGCAATGTGGAAACCTAATGAAAGACCTGAAGACAATAAAGCAGACCCATTCCCAGGT

C

**FIG. 3I**

**Heller Ehrman White & McAuliffe, LLP**

Sheet 34 of 113

## Title: Genes and Polymorphisms on Chromosome 10

#### **Associated with Alzheimer's Disease and Other**

## **Neurodegenerative Diseases**

**Serial No. To be assigned      Applicants: Becker *et al.***

Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

47801 TGCCACTGCACTACAGCTTGGACAACAGAGTGAGACCCCTGTCTCTAAAAAAAAAAACAAATCCTACATTAAATATCACTTTCCACTGCTTCTCTGTAG  
47901 AAGAAAAGGTAAAGTTAACCTTATCTCTGTCAAGAATTATATAATTTCACCTATGGACAATACTTCTTGTGTTATCAGTCATAAAAATGTCAA

e16

48001 GTGTCTATAATTTAAGTCTCTTCACTTCACACCTTCTTACAGGAATTGCAAGTTAATGAATCTTGGACAGAGAGATTCTGCTTGGAGGAAA

e16

48101 AGTGTGAAATATACAGAACCACTTAGTACTGTCAGGAAAATATACAGCAGTAAGCTATTCTTAAACTTTCTGTAAGTCTGAAATT  
48201 TTTAAGAAGAAAAAGCTTAAATAGCACAATAATTCTCTGTACTCTTCAAATTCTCTTCTTCTTCTTAAATTCTTATTATGATGTCGTTGATGTTATAT  
48301 ATACATGCATATAATGCTCTTCTATCGCGTATTGTCTCTTCTTAAAGACATTGAAAACCTCGCTGTCTTACCCAAATATATTCTGAATTCTCCCAA  
48401 TCTTAGAAACACACTAAGTAAATTCTAACCTATATTACTGATGAAAATATACTAAGTAGAGCAGGGTTGGCAAACACTGTGGCTAGCAGGC  
48501 TGATGCTGCTTGTATTGCAAAATATTCTAACCTGAGACTTACATGTTACCTGCTTGGCTCCCTTGACTCGCAGTGGCAAAGTGTAGCTATTGATCAGGCC  
48601 TCAATTGAAACATAGCTTAAATATTCTCATCTGCTTCTTCAAGAAAAGTCTTGTGATCTCTTCTTATAGGGTTTCTTCTTCTTCTTCTTCTTCTTCTT  
48701 TCGGACGGAGCTTGTCTGACCCAGCTGGAGTGCAGTGGACTGATCTCAGTCAGTCAGTCACTGCAAGCTCCGCTTCCAGGCTCAGCCTACTCTCC  
48801 AGCTTCCCAGTACTGGGACATAGCTGGCCACCCAGTCTGGCTTAAATTCTTGTATTCTTGTAGTAAAGGGTTTCTCACCATGTAGCAGGGATGGT  
48901 CTCGATCTCTGACCTCGTATCGCCGCCCTCGGCCCTTCCAAAGTCTGGGATTGCGCAGCTGGCCTGAGCCACAGGCCGCTGTCTTGTCTTCTGAC  
49001 AAAAACAAACAGCTGCTCTGAGCAGCTGAAGTACAGTGGCCGAGTCAGTGGCTGAGTCAGTGTGATCTTGGCTACTGCACACTCTGCCTCTGAGTCAAG  
49101 TGATTCTCTGCTCAGCTCCCGAGTAGCTGGGATTACAGGCACATACCACCATGCTGGCTAATTCTTGTATTCTTGTAGTAGAGATGGGTTTCTGCCA  
49201 CGTGGCCAGGCTGATCTGAACTCTGCTCAACTGATCTCTTCTACCTCGGCTTCCAAAGTCTGGGATTGCGCAGTGTGACTCTGCCTCCAGCT  
49301 GTATTAGACTTAACTGCTCTTGTAGCCTCATCTGCTTCCAGTCTCCGATCTTAAACACATACAGCAGCTATGTTTCTTCTTCTTCTTCTTCTTCTTCTT  
49401 AACTTATGCTTAAACATTATATTCTGATCTTAAATTTTAAACACATAGGAGATTGTCAGTTCTAGTTTTGCTTCTGAGTATTCTA  
49501 TACTCTGATGAGAAAAGATACATATTCTCCCTTAAATTCTCTT  
49601 CTTAAAGGGGGTCTGCTGGAGACAAATTGTTCTT  
49701 TAAGGGTTGCAAAATTATTCTT  
49801 TTATAGGAGCTCTCCCTATAGCTGCTT  
49901 GTTTTGTGTTAGCTCTTCTGAACTCTGCTAGCTT  
50001 TTTTCATCTGCCCTATGACTTTGATGACACAAATGTTAGATCTT  
50101 CTCTCTCTGTTCACTGGGGAAACTATCTGATCTGCTT  
50201 TGTGTTTCTGAGTATGCTT  
50301 ATTTAAATTCTCTTCTGAGCATTTTTGATGCTGCTT  
50401 TCTTTCTCATTCAACTTGTGTTCTT  
50501 GATCTCTTAAAGTATTCTTCTGCTT  
50601 TTTTTAGGCCCTGAGTGTATTCTGATAATGCTTGTGCTACCCACATGAGAAAATTGTATTCTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
50701 ATGTCGACTCTGATCACTGATGCTT  
50801 ATGCTAACATCTTAACTGAGATTCTT  
50901 GGATTATTATATCCTTGAGAATTGACCTT  
51001 TGAATACAGGTTCTAGCTT  
51101 TCTTATAGACGACATCTGTTCTGCTT  
51201 GCCCAGGCCAGTACAGTGGTCAACTTGGCTCACTGCAACCTCTGCCTCCGGGTCAGTGTATTCTCTGCTCAGCCTCTGAGTCTGGGG  
51301 TACAGGCCACACCCACATGCCAGCTTAAATTCTTAACTTACTAGAGATGGGGTTTCTTACCATGTTGGCCAGGCTGTTCTGAACTCTGACCTCAAGT  
51401 GATTACCTGGCTCTGCCCTCCCCAACATGCTGGGATTATAGGTGTGAGGACTCTGACCCAGCTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
51501 ATCTCTCATTGACTTATTTAAATATTCCCTTTTAGTAGTGTAGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
51601 ATTAAAGATAATTCTGATCATTATCTT  
51701 CATTATTCTCATGTTTACTTAGGTGTTATATGCTGAACTTAAACACCTAATCATTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
51801 ACTAGATTCTT  
51901 AGGTTCAACCAATTCTCTGCTCAGCTGGCTTAACTGAGTGGGGTTTCTTACCATGTTGGCCAGGCTGTTCTGAACTCTGACCTCAAGT  
52001 GTTTACCATATTGGCAGCTAGTCTCAACTCTGACCTTGTGATTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
52101 GAACAGCTGTTCTGCAACTCTGACTTATATATATATCTT  
52201 TGTTCCATTGTAACCTCTCTTATGTAATCAAAAGTATGCTTACTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
52301 CGTGGAGGAAACTAGTAGCTGGATTGAGAAGGGAAACTGATGTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
52401 TGTCCTACACAGCTT  
52501 CATTATTCTCATGCTT  
52601 CTGTCGCCAGGCTGGAGTACAATGACAACTCTGACCTTGTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
52701 TGAGATTACAGGCCACCCACAGGCCGGCTTAAATTCTT  
52801 CTCAGGTGATCCACCTGCCCTCCAAAGTGTGGATTAGGGCTGAGCCACTATGCCCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
52901 GGTGTTGGTTTAACTATGCTGACTCTGTTCTT  
53001 TGTAAAGATAACTTGTGAACTTATAGGGCAACTTACCCAGATGTTAACTTATGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
53101 TTATGTTTACATTGTTCTTATGTAATATTGTCACACCCCAATATAATTAAATTATGAAAGCTTATAGCTAATTAAACATAACATTGTTAATG  
53201 TCTGATGTTCTT  
53301 CCTCTGAGTAACTTGTGAACTTACAGGCAAGGAAACTGCTTAAACAGAAATAATTGACTGTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
53401 AGCAGTCGAAAGCAGCGGGCTTANNN  
53501 NNN  
53601 GTCTTATTAAGGCAATGCTGTTGAAAGACAGCTTACCGCCAGCATCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT

e17

53701 GTTCAGATCTGCCACTTAAGAGCTGAGTGA TCTGGAGTTA TATACTCCTTGAGTCTTA ATTCCCAATTTCACAGTGTCA TTCTTTCCCTATAGG

FIG. 3J

Heller Ehrman White & McAuliffe, LLP

Sheet 35 of 113

Title: Genes and Polymorphisms on Chromosome 10

Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned Applicants: Becker et al.

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e17

53801 AAATCTAAGGATATACTCAACAAAATGACTTTCACAGTCAAAATTGTGCTGATTCTGATGGCTCTCACAGGAACCTCAGAAATTAAACCAAGAAG

e17

53901 GTACAAAATTGTTGAAGAACCTGTGAAACACTCTGATAAACTCAATGCCAACCTGAAAAAAATATCTCAAGAGACTGAACAGAGATGTAATCTCTGAA

e17

54001 CACAAGAACAGTTTCTGAAACAGTGGTATCTCCCTAAATGAAAGGGACAGGAACCTCACAACATTATGGAGGTAATAACATTGTAAGTGGAA  
54101 CCTTAATTGGGAGAAATAATCAGAAAGTAAATTCTTGCTTCAAGAATAGTTCTGCTTCAAGAATTCAGCTTAACTGCTTAACTGACTTAACTTAACTTAA  
54201 AGTATAATTATTGGTATGCTTCAAGATCTGTTGTGCTTGTGTTATATGCTTCTCAATCTGCAATTAAATTAAACATTGTAACGTTCTCTCT  
54301 GTATTATCTGGTTCTGACTTAGTTCTCAAGAAGGGCACCTGCTTGTGTTATGTAAACCTTCACTTATATGCTTCTCTCT  
54401 TTTTTGAGATGGAGCTCTCACTCTGTTGGCCAGGTGGACTGCAATGGCACGTCAGCTGCAACTGCGCTCCCACTTCAGCGATTCTCT  
54501 GCCTCAGGGCTCTCGACTAGTTGGGATTAGGCACCTGCCAACACCCGCTAAATTGTTAGTATTTAGTAGAGATGGGTTTCACTATATTGGCCA  
54601 GGCTGGTGTCAAACCTCTGACCTCATGATCCACCCGCTCGGCTCCCAAAGTGTGGGATTACAGGCATGAGCCTGCGCCGGCTATTTGCTT  
54701 TTACTTCTCTCAAGAACCTTAACTTAAAGTATTAGCTTGTGCTTCTGTAACAAAGGACTTCTGAGTGGTTATGGATTGCTT  
54801 AACTTAACGCTTGTGAGCCCTTGTGACTCTGTTCTCTCTGCTTCAATTAAAGGATTAACTAACATTCTCAGGAAGTAGGTACAAAGAATTAAA  
54901 ATTTTAACTATAAAGCTTTCACTAAAGGAACTAGCTTGTATACAAATAGCTAACTTCTGAGTGGAAATGTATAATATGAGCC  
55001 TAGAGATCTGTCAACAGACAGTAAGGAACGTTAAAGGATTCTGCTTCAAGGCTTACTAGTGGCAACCTCCATCTCAGCAACAGTT  
55101 ATTTGAGGAACTAAAGGAAATAATGGCCATAATGGTAAACATTTAAACATATAATTAAACATTCAGAACCTAAACATTTCATAGGCTCTTGGGATC  
55201 ATGCTAGGGAGAACACATGTGCTGAAATGGTAAAGAAGAAGAAAAATTAGCATCCATGTCCTTCTAAAGAACCATATCTGGTTAGCA  
55301 GGGTATGAAAGAACATTGTTTCACTAGACTAAAGCTTAACAAAGTGGAAAGAAGATGAGTAAATATACCAACTATGCAACTCTTAAACAAATTAA  
55401 CCCCTGTTGATGTTAACTGATGCTTAAACATTGTGATCAAAGCTGTGGGAACTTATAAATTAAGGCTAACATACCCTGAACTCACTGATAAATCT  
55501 TAACATGAGAGACACAGCAACGCAATTGTGCTGAGTACTACCTATGAAATACTCTGCTAAACATTAAACCTGAAATTAAACCAAGCTTCTAGGTCT  
55601 AACAGATTGTAGAAATAACGATGAAATGGCAGGAACTTCCAGGAAATTCCAGAAATTCTGAGATGTTCACTGCTTCAAGCAGCAACAGATT  
55701 TTTTTCTCAAGGGAAAAAAATGAGAAACAAATAACCTGTATATAACAAAGGACTTAAAGACTAGGGCTCTTAAGGTCTTAGTTGCTGAGACAGCTCTG  
55801 TTGATATTGTTGATTAGAATGATTAAAGATGGGCTTTCACTCCAAAGGAGTGTCCAAATTGGATGATAAATTATAGTCACCGACATTAGACC  
55901 TATGAACCAAACTCTAGGTGAATTCTGTTCAACAAAGCAATTGTGACACATGGAGACTGGTAAACATGGGACTAGACATTTGATA  
56001 GGAAGGAACTAGCTTACCTTTAGTGTAGTGTCTTAAAGCTGTGCTTCACTCTTAAAGGATACATGCTGAACTTAAGGTGATGAAATGATGAGC  
56101 ATTGTTTCAAATAATCTGGTTATGGAGGAGTTGAGTGGCCAGTCTGTTGTAATGTCGTACTCCACTTGTGTTAAATGTTGAAGCTGGTA  
56201 ATGAATACAAGGAGTTAAATATACTGTTCTCTCACTTTGTGTTAAATTTTAACTTACTGAGGCAAGGCTGGCTCATGCTGTAAT  
56301 CTTTGAGGCTCAAGGTGGCAGATTGTCAGGCCAGGAGTTGAGCACAGCTGGCAACATGGTCAAATGCCATCTTCAAACAAATTAG  
56401 CCAGGCATGGTGTACATGCCATGCTGAGTCCCAGCTACCTGGGAGGCTGAGGTGGGAGGATGGCTGGCCTGGGAGGTCAAGGCTGAGCAGCACTAC  
56501 ATGCCACTGCACTCCAGCCTGGCAACAGAGTGTGAGCTTGTCTCCAAAAAAATTATGAAAGGAAATATGATGTTGAATAAAACAA

e18

56601 CTGGCAACTTTAATTAGTAATAAATATTATTCATCATTACAGGTTGTAAGCCAATGTTGAGGCTTCAGACATCACTGAGAAATCAG

18e. CDS+2605

T

e18

56701 ATGGACGTAAGGCACCTCATGAGAAACAGCATAACATTCTGATCAGATGACTATTGATGAAGATAAATTGATAGCACAACAACTAGAACCTTAATGA

18i. D+16

G

56801 AACATAAAAATTGGTTGACTAAGCTTAACTGCTTCTGGAACAGGATCTGAACTGGATATCCAACAGGTACTTTAAAGGAAATAGAATTGTTA  
56901 ATTTTGTAACTGCAATTCAACTCTATGCTAGTGTGAGTGTGAGGAAATTAGGCTCTGCCATTGCTGAGGAAATTAAACATCTCACTGTAATCAAC  
57001 TCAAAATGGGAACTTGGAACTTAAATAGTTAACTGAGTGTGATACAGCTGTTGAGGATCACAATTCTGACTATTTCACTACTTCTCAGGGAGTTG  
57101 ACTCTGTTAATAGGGGATTTTTAAACAAATACAACCTTAGCACTGTTGAGGATCACAATTCTGACTATTTCAACAAATATGGGAGGATGTAICTGACTAA  
57201 ATCTAGTTAATGCAAAGTTTACACATTGTGCTTGTGCTCTCTCATTTGTCATAGACTTCTGAGGAACTTCTGTTGAGGATCCCTGTTTAAGAGA  
57301 TCAGGCTCACCATGCAATTAGGATTCACAATTGGAGGATCACAATTGGAGGATCACAATTGGGAAAGTCAATTAGGCTGTAATGTTCAAGGAGGCTCT  
57401 ATGGAAGAGATGTAACAGCTTTTACACAGCATGAAATTGGGTTCTTCATGGATTATGTTAAATGGGTTGCAACCCCTGTAACACTAACTAACCA  
57501 CTGAATTGTACACATAAAATGAGTGTATTGTTATGTTAAATTATCACAAAACCTTTTTTTTTAATTAAAGGAAATTGTTAAAGGGGATGGT  
57601 GCTACAGGTATTAGCTGNCACTTAAAGGACTTTATGNCNTCTTAACNN  
57701 NNN  
57801 GCCTGATCCGATGGCTCACACCTATACTCCACCTCTGGGAGGCAAGGAGGATGTTGAGGCCAGGGTCAAGGACAGCAGCCTGGCAACATAG  
57901 TATAATGTTATAACTGTTAAACCCACACACATTAGTAACTCTCTGAGGTTGAGGAAATGTTACTCTCATGTTGGAAATCTACTCATCTTCA  
58001 ATAATGCTGCAATTCTGAGACACTATAACTCTTTAGAGCTTATAACACATTCTTATATACTCTCATGAGATGTTAAACCTCATGTTTAGAGAG  
58101 TAGGATGAATCTGAAACAGTAAAGCTGTGATCAAATTAGAAAGTATTCTTAGTGTCAAACATGTCAGGGTAGCAAGACTGATCCTCATATATG  
58201 GCAATTATATTATTTAGAAGACAAGTAAATTAGGAAGTTAGGTTTTAAATTTACATCTCATACTTTAATTCTTACACCTCTTAC

e19

58301 TAATGTCGTTAAAGGTACGACACACAGAGGAAAGTATTATACCCATCAACACTGGTAAGAACCTGAAACATCTCCTGATCAGCTGAA

e19

58401 AAGGAAACAGCCTGAGCTTTAATGATGCTAAACTGTTGAGAAACAAACAAGAAGACAACTCCGTAATTAAAGGATCATTTTATAATAGAAC

FIG. 3K



Heller Ehrman White & McAuliffe, LLP  
Sheet 37 of 113

Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

e21

62701 TTGAATTTGATATCTACCCATTTCATGGTCACTCCATAGTTCACTTTGTATTAATTGGGTTCATTTGGGATTTGCAATGTAATAACGTATTTCTAG

e21

62801 TTTTCATATAAAACTAGTTCTTTATAACAAATGAAAAGTATTTCTTGTAATTATAAGTAATGAAATAAGAAACTGACTCTTCAGCTTGAGC  
62901 TTACATAGGAAATATCACCAACATCTGCTTAGAAGGACCATCTCATGTTTTCTTGCTATGACTTGTGTTATTCTTGATCCTCCCTAGACT  
63001 TCCCATTTCGCTTCTCCCTGGCCTACCTTCTCCCTTTTATTTTACCCAACCATTTGTAGAGCTACAAAGGTATCCTTCTTATTTCAGTACTC  
63101 AGAATTTTATCTAGAAATCTTAAACACCTTTAGTGGTTATTCTAAAAATCACTGTCAACAATAAATCTAACCCTAGTTGATCCTCCCTTCAGTAT  
63201 TTTTCACTTGTGCCCCAAATGTAAGGCAATTCAATTCCCTTAAGAGGCCAACTCATTCACTTGCACAGAGTTACAAAAAGCCCACTTAAGAGTATAC  
63301 ATTGCTATTATGGAGACCAACCCAGACATCTGACTAATGGCTCTGTGCCCAACCTCAAGACCTGTGCCATTAGAGAAGCTCACAAATGATTAAAGGACT  
63401 GTTTGAAACTTCCAAATTATGCTATAATTATTCCTTTGTTACATGATGAAACTTTTGCTTGCTTGTATATAATAACATGTTACATGTA  
63501 TCTTTTCTCGATTCAAATCTAACCCCTAGGACTCTGGATTTTGATCTGCAACCATATTCTGGAACTGAGATGTTTCAGCTTGAAGAACCAAAA  
63601 CAGAAGGAATATGTAACAAAGATAATTCTGTCACGATGAGTTAGTGTAAAGTTAGAGACATCTGACTTTGATAACTAAATTAAACCAAACCC  
63701 TATTGAAAGAATTGAAATATGCTACTTCAAGAACTAAATTGATCTCGTAGAATTCTTAATAAAATAATGGCTATAATTCTCTGCAAAATCAGATGT

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63801 CAGCATAAGCGATGGATAATACCT

**FIG. 3M**

**Heller Ehrman White & McAuliffe, LLP**

Sheet 38 of 113

**Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases**

**Neurodegenerative Diseases**

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt N: 27481-00000

TCTCAGGAATATGCTGGTAAATAAAAATAACCTTAGAGATGCCAAACTGTTTCCCGAGAACACCAGCATTCATTAGGTGTCATTCAATAGATTCT  
101 TCAAAGGATTCACCGAACAGAAGTTGGCAGAACATGATATAATACCCAACCCCTTGACATTAGGACTACTAAAGGGCCTGAGATCTTGGATTCA  
201 GAAAGATTTCATAATTAAAGTAACCCAGAAATTTCTAAGATTATTTGACCATGAAACATATGCTCCCCACAAAGCACATTCCTCTTGGACTG  
301 AGGATAATTAGACGTACGGCAGAGGGTAGGGGAGGGGATGGCATAGAACAGGACCTGGGAGCAAGAATATCTAAGTTAATTCCTGACTG  
401 CTGCTATTATTAACCTTGGCAATTTGCTGCTAACTTGTGTTTCTGCTCATTTTTTTTTTTGTTAGAAGTAAAGTAAATCCTACACTCCTACTG  
501 GGCTATAATGATGATGATTAAGTAAAGGAATGTCCTAACTATGCTGAGTTGCTGCTTAAATCTACACTAACAGAATCTGATTTGCTCAATTTGCTCTTIC  
601 CCTTTTTTCTCTCTCCCTCTCCATTCCTTCCCTTACCTCTCTCCCTTACCTCTCTCCCTTACCCCTACACCCCTTTCTCTTCTTACCTTTTATTTT  
701 AAATGAGATTTCTTACCTTGGAAATAGTTTGGAGATTCTAAAGGAAATTTGCGAGATAACAGAAGATGCCCATATACCATCTCCCTTACCTCTTCTT  
801 TTGTTCTATTAGATGCTCAGACTGTCGACAGCTGGCAGCCGGCTTCTCCCTATGGCACTAACAGTCTACTGAAGGTCGACAGACAAGGCC  
901 TATCAACACCTTCAAGACTGGTGTGTAAGTCAGTGACAGATGCAAAACACAGGGTGTGAAAGGCCCTCAGGAGGGTAACCTAACCTAGATTGAGGGCC  
1001 CAAACAGGCCCTCAAGAGAAAATGCTCAAGTGAGGAGAGCTGAGAGCTGAAGGATGACAGTGGCTAACAGGCTTAAAGGCTTAACTTAAAGGGTGTGAATCT  
1101 AATTGGAAAGGGAGAGGGTTCAGACTGAGCTTGCGAGCTTGGCTGAGCTTGGCAAGGAAATCTGAACCTTTAGTGTCTCCAGCTTGGAACTGCATC  
1201 CAAATTCTAGGTTCTAGATGTCATTATCCTACACATCTCTGTAAGGAAATTCATGCTAAACTACCTAACAGGCTTAAAGGCTTAAATGCTGAACTG  
1301 CTTGACACTGTTCTACCGACAGCAAGAAATTAACAGAATTTTAAAGGAAATTTGGCCAGAAATATGAGTAACGAGACAGGAAGAATTTG  
1401 GAATGTTAATATAGCTGGGCTATGCGATTGCTTAAAGTTGCTTAACTGTTAGCTTGTCTTCTCTGAGAAATAAAAGGCTTAAAGGGCCCTCTTCTGAGCCCC

us-470

us-450

1501 CTTATGGCGCACATCTGACTTTTCAATGGTTAACAGTCCTCCAGAACAGCTGTGAGGCCATCTCATGTTGCAGGCCAACATGGACAGCCAGTC  
 1601 AATGCCCGCAAGTCTTCTGAGTGACTCCAGCAATTAGCCAAGGCTCTGTAACCCAGGAGGACCTCTGCGCTCTGACCTCCATTCTCTCAAGAC  
 1701 CTCCCCAACTTCCCAGGTAACAGCAGAAGGCTTAAAGAAGGGCAGGAGGCCGCTCGAGGTCTCACCTGAAGTGACCATGCCAGCACTGCA  
 1801 GGAACGGCCGGAGACAGGAATGCCATTGTCAAGAACGACCTGACTCTCCCTCACCTGAGTCTCCCCCTCCCTACCCGCGCAGGGAAGTGTG  
 1901 GAATCAATGGAGCCCTCCCAACCCGGGCTTCCCGACGGCTCTCCCTCACCTGAGTCTGGACCCGGGGCTTTCAGGAGCTCTCTGATCTCGC

### exon1

### Example

EXHIBIT

2301 CGGAGGATTGCTCAACACCATGCTGGGCATCTGGACCCCTACCTCTGGTGAGCCCTCCTGCCGGGTGAGGGTTACCCGTCTTAGTCCCCGGG  
start codon

2301 ATAGGCAAATGGGGCGGGCGCGGACGCGTGCAGATTGCGGCGGACGCGCAGCGGGCACGCGGGACCTGGGACCCCCCCCCCTTCCTCCCCCACCCCTTCCAC

CTGGGGCAGGGCGGGGCACTCCGGCGCTCTCTGGAGACCACTGCCTGCCCCAGTCAGTGGGGCTGGCGCTGCCACGGAAATTCAACGGGGACTCTCCGA

FIG. 4A

**Heller Ehrman White & McAuliffe, LLP**  
Sheet 39 of 113

**Title: Genes and Polymorphisms on Chromosome 10 Associated with Alzheimer's Disease and Other Neurodegenerative Diseases**

**Serial No. To be assigned**      **Applicants: Becker et al.**  
**Date of Filing: 6/18/03**      **Attny Dkt No. 37481-3308B**

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FIG. 4B

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10

Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned Applicants: Becker et al.

Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

11301 CTGAGCTTCATAATTCAAAAATTTAAAGTCTCTTAGTGTACATATTTCAGTCCAGTAATTTCACAAAGAGAATTTCTTACCA

11401 TCAAACAACGTGCTGAATGAGTGGTATATTTAGTCTAGAGGACCAAGAGAAATAAATGGCTTGATTATGCTGGTTAACGAAAATATACCG  
11501 ATGAAACAGAGGTTAATTTGTGATTTGTTAGAATTAAATTAAGGAAAGAAAATAGAGAGCAAAATAACCAAATTATATAAGAAT  
11601 TCAATGTTGATAATTCAAAAGGTTAGAATTTCCTTCAACTAACTAAGTGTGTTAGATTTACCATTAACCCAGATTTCTATTAA  
11701 CTAAAAAAATAAATACACAGTCTGTTAGATAATCAGTATAGATCTTACGGCTCAACACAAACCTGCTACCTTTAAACTTTTATTATAACAAACA  
11801 CATATGCAATTCAAAAGGAGTGTGAAAGAAAATAGTCTTCAACTAAAGCACCATAAAATTCTGTGTTAAAGATA  
11901 ATATGCTGAAACATTTCCTTCTGAAATGTCCTTCTTCTTCTACTTCAACTTCAACCTCTACTGTTGAAATTCTGGACAC  
12001 CGTTATACCCCTCATCAATAGGGCATTTTCTGCACTAGCTGAGCACAATGGTCATATTGAGAAAATCCCTTGTTGGGGCTTGGCTAGAGGAA  
12101 ATCTCTTGGCCGGGTCGCTCATGCTGAATCCAGCAGTGGAGGCTCTTCAGGAGCTTCAGGAGTTGAGATAGCTG  
12201 GCCAACGTGTTGAAATGGCTCTACTAAAATAACAAAATTAGCCGTATAGTGTGCAATTCTGTAATCCCACACTCGGAGGCTGAGGAG  
12301 AATTGCTGAAATGCCGAGGGAGGTTGAGTGTGAGCCAAGATCTAGATTGTGCCACTGTGTCAGCAGGTCAGAGCAAGACTCCGCTAAACAA  
12401 AACAAFAACAAACAAACAAAAGGAAACCTCTACTGACTGTGTCAGCTTCAACTTCAACATTTCTGCTCTCTAAATCACAACAAACCCGTT  
12501 GCAGTGCTGATGCTGCTCAAATTGAGAATTCTCACTGACTGTGTCAGCTTCACTGACTCATTTCTGCATGCTGAGGGCTGTCATTCTCACACT  
12601 GAATGCCCTTTTTTTTGTGCTTCTTTAAAGCTTTCTGTTGACTTCATAAAACAGGGGTAAGAAGGTAATATGCTTTA  
12701 TTTTGCTGCTGGGGTTTCTCTTCTCTTCTGAGCTTCTAGCTCATGAGCCTAGCATGAGCCTAGCATGAAACTGGAACTTGAACTGAAATGG  
12801 GGGCTATATTCTCTTCAGTAGTTAATCCTGCTCATGACTGTTGCTCTATTGTAACCGCTATGCTAGATCCAGGGCTACTATTCTGAGAA  
12901 AGTGTGGAGATCTTCAGACTGCCATGGTGTAGGGAGAGTTCTAGCTATTCTCTGTCGCTAATTCTGTCATGACTCTAAAGCTTCTGCTCTAAACAA  
13001 CTGGTTGGCTATGAAAGGTGATCTCTCTACTGATGCTGAGCAGCTGGTAATCTGTCATGGTCAATTCTGTCATGGTCACTGGGATAACAAAGACA  
13101 AATTCTCATGTCCTCTGTTCTGAGGATTCAAGGGACAAATCAGAGATTCTAGCTAGATGACTTCACTCTAACTATTGTCGATTCC  
13201 ATTTCCTCACCCCTGCGAGAGGTTGCACTGTAACGGCTGTTCTGAGAAATTCTAGTGCCTAAACTGGAGGGAGGGAAACACAAACTCAGCTTCTCC  
13301 CAAGCTCATGGCAGGCTGCCAAAGCTTGTGCTTCCAGCTGGCTTGGGCTTGGCTCTGGCTACAGTGGCTCTGGGG  
13401 CTGGATTCTGTTCTTAGCCTACCTCCCAACACCTCCCTTCCCTGAGCTTCTGCAAAATTCCTGTCATGCTGCTCTGGCAAAATAATTGTC  
13501 TAAAAACAAATGGAGTTGTTGCTACCTAGATGGAGTAAATATTAGAAATATTCTACAAATAAGAACAGGCCAGTTGGCAGAGTCTGG  
13601 TCTCTGAGTCTCTGTTAGCCTACTTACTGAGCTTCTGTCATGCTGCTGTAATCTGTCACCTGGTACTTGTGATGTTAAAC  
13701 AGGAATTGTCGCCCTCTCATTAATCTGCTCTAAATTGGTGAATTAGTATCTACAGGAGGGCAGGCACTATACCGTAGGGACTCTCTCT  
13801 CCCTCTGCTCTTGTCTTCTCAGATATGCACTTGTGCTGGCAGACCTGGGTTCAACACAGTTGTTGAATTCTCTCTCTCACTATGC  
13901 TCCCCCTACTGAAACTTAAAGAACAGCTGTGAGGAGGTTTCCACTTATAGATAAAGAACACTGAGACTTGGAGAATGTAAGTGTGATTT  
14001 ACGTATTTCACAACAGGCTGTGAGGAGGTTTCCACTTATAGATAAAGAACACTGAGACTTGGAGAATGTAAGTGTGATTT  
14101 GGCAGTAAGTGGAGGCCCTGTCACCTAGAACACCTGGCTCTATCATGGCTGTTCTAGTGTGTTGAAGAACCTGAGATCAAACACTGCT  
14201 ATACAAGTGAACCTGCTGCTTCTGGAGAGAAATCTGAAGAACAGTGGAGCCCTCACATTGCTTGTGCAACAGCAGATACTGCAATTGGG

exon2

14301 TGGGTTACACTTGTCTTACACGTTGCTTACTTCAGAAATCAATAAAATTCTCTCATGCTTTATTTACAGTTCTACGTCCTGCTAGATTATCGT

exon2

14401 CCAAAAGTGTAAATGCCAACGTGACTGACATCAACTCCAAGGGATTGGAATTGAGGAAGACTGTTACTACAGTTGAGACTCAGAACTTGGAAAGGCCTGCA

2e.CDS+183

exon2 A

14501 TCATGATGCCAATTGCCCCATAAGCCTGCTCCAGTATGTTACACAAACATCCAGAGATTACAGTGAAGTCACAGTTAGGAGTACACATAGTA  
14601 ATCATGACTATAATAATTTCAGTTTGTGTTCCCTATATTATAACATAACTGAGAGAAAACAACATGAAATTATTTCACAAAGATGAGTTTA

2.i.D+176

T

14701 TTTTATTTATCACGCTTATTTGATGCTGTTATGGATAAATTAACTTACAAGTGAATGCACTCTGAAATGAGAAGACTGGCTATTGGCTCCATT  
14801 TTTCCTAAGAAAATGACTCATTTGCAATATGAAAGCTTATGTCAAAACTGATTAGGATCTACCATATAACAAATCTGGAACAGAAGA  
14901 TTTCTCTCTTAAAGGATATGTCCTGAGCTTCTCCCTAATCAGAAGGCTCTAAGAAAGCTGCTGCACTGGCTCAAAATAATTGCAATT  
15001 GCAGCTGAATAACTAGACGAAATAAGGAAACAGCAGGAAACACAGCTTTTTTAAATCAATCATTTGAAGGGCAAAACTAAATTTCAGATCACA  
15101 AATCTTCAACACACTGTTAAAGAACAGCTAAAGGAAATGCAATTTGTGCAACATTTCTCAACTTTGAGTAGGTTGAAAAAGGAAATAAGCACATGG  
15201 GTTCTGAGTGTGATGAGTTAAATAGAACAAAAGGACTGAGTGTGTTCTGAGGCTCTCCAGGGCTTCCAGCCTCAAGCTGTAACACAGGATGGCT  
15301 GTTCTGAGAAGATTCTACCACTCTCCCTGTGCTTCATGCCAGATTAACTACCGTTATGAAAATCTCCCTATAACCAACCCATTATACTTAA  
15401 ACCCATTTACACTTAAATCTCAACACGAATAAGAAATGGCTCTGGCTTATTATAACCTGCTAAACACAAATCAATTGCTATGAAATT  
15501 CTTTGTCTATAATTAAACCTAAATGTAATTAAATGCAACAAATGTCATTTGCACTAACACTGCAAGGATTTTGCTATTGCTTTTCGCTT  
15601 TTGTTGTTGTTTATTAAATTAAAGAACAGTGAATGTAATTGTTACAAACTTTAAGAAATCATTTGCTGATATGAGTCAAAATTGAAAAAAATT  
15701 TTTTAACCTTTTCTCTTATTTATGAGTTTGTGAGGATACATGCCAATCTGCAAGGTTAGTACATGTCATGCTGTTTACTTCTGTAAGATAGCAATT  
15801 TGCAACCAACTGCTCATGAGCTTGTGAGGATACATGCCAATCTGCAAGGTTAGTACATGTCATGCTGTTTACTTCTGTAAGATAGCAATT  
15901 ATTATACAGAAAATACCTGAGAAAATAACAAAATAAGGAAAATATTGACATGATATTCTACATATGATGCTAGGATTCTTAGGTAAT  
16001 TCTGGAATTTAAAGACTGAATGAGTATGTAACAAAGTCATGTTCTGATGATATTCTACATATAACCTCAATTATAACCTCTTAAGTAATTTC  
16101 CAACTGATCTGGCTGGATTAACTGATTCTCCCTGATCCGCTTATAAAAATCTCTGATGGCACAACCATGTTAAATCTCCACTCTCAATTCC  
16201 CTTGTTGAATTAGGCTTATCAATATCTAAGTGTGCTTCTGTTATGCTCATATTGAGTGTGATATTGATGTAATTGATGAAATTGCAATT  
16301 AAATTAAATGAAATACAAACAGAGAAAAGACAGATTATTCTAAGAAAATAGGTTGAGTGTGTTGGAGAATTCAATAAGATGAGCTCTAAATG

FIG. 4C

## **Heller Ehrman White & McAuliffe, LLP**

Sheet 41 of 113

## Title: Genes and Polymorphisms on Chromosome 10

#### **Associated with Alzheimer's Disease and Other Neurodegenerative Diseases**

## **Neurodegenerative Diseases**

**Serial No. To be assigned**      **Applicants: Becker *et al.***

**Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B**

FIG. 4D

Heller Ehrman White & McAuliffe, LLP

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**Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases**

**Serial No. To be assigned      Applicants: Becker *et al.*  
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20901 AATCATGAAGGGCCTGCTTTAGGCTAAAGAGGTGGTTTGACCAAAGTAGAGAACCTGCCCTGTAAGTCATCTGGAAAGCTTCTAGGAGTTCA  
21001 TCTAATAGGCTTAAAGAAATAAGCACATGATGCCCTATGTTTATTGCTAGGAAATTATGTACAGTTGTCAGGCCTCCCTGGCCACAAGTGTCT  
21101 TGAGAGTGCCTATGATGACAGGCTAGGTAGGGATTGGGAAGCAGCTGACTAGTAAATAAACATAATAGTAATCCAAATATTCTATAATCTT  
21201 GATTTATTTCTGTCATCATAACCTTGAATAGATAATTATTTCCATGTTATTGATGAGATAAAAGGCTCATGGCAGTGTACTCCAAAGCTC

21301 ACCTAGTCAGGTAATGGGAGGGCTGTGAACCTAGACAACCTGATTGTGAATGTTGTCGTGAGGAAATCACACATGAACCTCTGAGTCTCTG  
21401 ATCACCCCGGTGCTAAAAGTGGCAGCTTAAGGGCAGCTGAGTACCCCTCCCTGGCTATCACCTGCCATTTCCTGGGT  
21501 CTATAGGAATTTTGAAATTACTTTGAGCTTATTAAAGGCTAGTTTAAGGCTAGTTTAAGGATTAACCTGTTACCTGTTACAGTTATTACTAGGTTAAGGTTATT  
21601 TTGTTATGCACTCATCTCTTGTGTCACTATTTCCTATCTCCTTAACTCTGAAATCTAACAGACAGAGTCATTCCCTATGATAATTTCATCC  
21701 AGCCATCCAATTATAACTGTGCCAGCTTAGATACTAATTAGAAATATTGAAGGAATACGTTGCCAGAGATGCAAAGATGAATAAGGCC

exon5

21801 CCTAATTACAAAGTGCCATTGAAAATTATAAGGAATTATTGCCAGGCTTGTAAATTCTCCCTGTATTTTTTCTAGATGTGACATGGAATCAT

exon5

21901 CAAGGAATGCACACTCACCAGCACACCAAGTGCAGGAAAGGAGGTAAATTATTTCCTACGGTTATATTCCCTCCCCAACCCATGAAAGATGTG

5i.1

G

22001 AAGAAAAACCAACTCTGATTACTAGAAAGTCCTTATTTAATCTAAAGATTGCTTATTTCATATAAAATGTCCAATGTCCAACCTACAGGATC

exon6

22101 CAGATCTAACTGGGGTGCCTTCTCTTCTGCAATTCCACTAATTGTTGGGGTAAGTCTTGTCTGTTGTCAAACTGCAGATTGAAATACTT  
22201 GGGAAAGTAGTCACAAAGATTGGCTCATTTTACCTATAAAAAGCTTACCACTTTGGTAGATTATGTATTGTTAATTCTGCCCTGAACTGCCCT  
22301 GAGAGCTGACTGATAAGAACAAATGAAATTATCCTCGACTGAGCTTGTGAGCAACAGTTGGCCATTGAGTGGTATCTCATCCCTCATGAAACAGG  
22401 TGTTCTCGAGCAGCAGAAATTGCGAACACTTTAAAACCTGTTACTCACTGCGCTCTCCCTGCCATTGCTGTGTTAATTATTTCTCTCTTAA  
22501 TCCAGGAAACACATGGCAGGAAACTTTAAAACCTGTTACTCACTGCGCTCTCCCTGCCATTGCTGTGTTAATTATTTCTCTCTTAA  
22601 CTAAAAATACTATGGGACACAGTTATACAAGGIGACTTAGTAGAGTAAAGCCAAAATTAGATAATTATCATAAATTAGTCTAGAAAATCCC  
22701 TTAAAGTCATCATCAACTACAGGGTACACCAACTTCACTGTTACTTAATTCCTTCTCAGAACATTATCTGTTCTCAGTTCACTGAGT  
22801 TGAAGAAGAAAGTTGCTTGCCTTACGGGTTAGCTGAAATACATTGGGATATTAAAGCACTGTAATTGTCAGAGACATACAGATCTTC  
22901 TATCTCACATTGACTTAAATGACATACACCTATTGACTGATGCTGTTAGCTGTTATTGTCATTTCCTGGCATTCCATAGCAAGTTGATGTTG  
23001 ACTTGTGTTGCTTCTGCGATCTGCGATCTGCCATTGCTGCGCATAGTCTGGCGTCCACATCTTGTGCGACAGAGTGGCTTGCATATGTAAGTCAAAGGCC

6i. A-144

A

23101 CCTCTTGCTAGGCCAGCCTGTTGTAATTAGATGACTAATTAGATATGCTCTTCACTAGAACACTTGACTTGTAGTAGTACGAAAGTCCAAAATCAGCG  
23201 TCTCCTGCGATGTTGGCCACTTTAACGTTACTGAATTCTCCTTCTCTTATATTCTCTTCTAGTGTGAAAGTATGTCATGCACTTCAC

exon7

23301 AAGGCTGAGACCTGAGTTGATAAAATTCTTGTCTTCAGTGAAGAGAAAGGAGTACAGAAAACATGCAGAAAAGCACAGAAAGAAAACCAAGGTT

7e. CDS+642

C

23401 TCATGAATCTCAACTTTAACCTCTGAGGTATTGAAATAGGTATCAGCTTCTGAAAGAAAAATAGAGAAAATTAGTGTATTGGCTTTGTTACTT  
23501 CCTTTTACTTTTGTGTTCTGTTGTTGTTGAGATGAGCTTGTGCTCATGCCAGGGTGGCAACTCATGCCACTGC  
23601 AGCCCTAAACTCTGGCTCAAGTGATCTCTGCTCAACTGTGCTGGCTGGACAGCTCAAGGCAAGCAGGTTAAATTTTTATTCTTATT  
23701 TTATAGAGACAGGGTCACTTTGTTGCCAGGTGGCTCAAACCTTTGACCTCAAGCAATCTCTGCTCAGCCTCCAAAGTTCTGGGATTATAGG  
23801 TGTGAGGCATCCGGCCCTGTTACTCTTCTGTTGAGCTTACATGCTGTTGTTGTTGAGCTTACAGGCTTACAGGCTTACAGATGAATTATGATAG  
23901 GTACCCAAAATAAAAGTAAACTGTCACAAAAGCTGAAAGTCAACAAAGGGGAATTGAGACTGCTGAAATAGCTGAAAGAAACTGGCC  
24001 AACCTCCAATGTTCCGCTGTTGTTCTCTGCAAGGAAACAGGCTTACAGGCTGTTGAGCTTACATGCTCAGGAAAGGAGATTGCTCTAAAGT  
24101 TTGTCATAAGGGACACAGTTAACTTCTCTGCTGCGGTTGCTTACCTGCTCAGGCTTACAGGCTTACAGGCTTACAGATAGCA  
24201 AAATACACCGAGAAAAGAACACAGTTGCACTTAACTGAAATTATTCTCTTCTGTTGGCCAGGGCTAGGGAGTTAGGATTCTTAAATATGGTA  
24301 AAAAATTTCAATTGACCCATTCTGTTGTTAAAGAATAGTACAGGAAAGAAAATTAGTACAGGAAAGTATTTAGTATTATTAAATTAAAG  
24401 TCTATATGAAAAAAACCTCAACCTATTGATGAAATCTTCTGCTTCTTAAACAACTAATGCTTAGGTTCTGCTTCTTAAACATCAAGCAACTGATGTTACTCTTCTGAAAT  
24501 TTTCAGAATAAAATTGATGTTAAAGTAACCTCTTAATCACTTAATCTGCTTCTTAACTGATGTTACTCTTCTGAAAT

exon8

24601 TAAGGAAAATTAGAAGTTCACATTGAAATATTCTAAAGATATTTTATTGCTTCTGCTTCCATTGCTTCTAGGAAACAGTGGCAAT

exon8

24701 AAATTATCTGGTAAAGGTTTATCATTTTATTCTAGAGATGGCATCTTAGAGTAATAGGCAATTTCAGAGTAAAATATGTTACTAATTCTAGT

**FIG. 4E**

Heller Ehrman White & McAuliffe, LLP  
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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

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8i.D+179

G

24801 GACATATTATGGATCTGTTATTCATACAATTCTACCTGCTCAGCATAAAGCATTATCAGGCAGTTGTTAAATTATAATGA~~A~~TACTCATAGT

24901 TAAAAAATATCAAGTAACAATAAACACAACAATAGTCTGAGGCTTAAGAAAATTTCCTTCATAATCAGCTAGATGTTACAGAACTCCGTCTAAAAAGA  
25001 TCTAGAGGTTAAAGTGTACTGTAGACTCAGGTATTATCAGTGACCAACTCTAAACAACATGATTCCATTGAGTTGTTCTTGATCTGTGATT  
25101 AGAGATAAGATGATCATAAAACTCTTGCTTATACITTTAGATTTGAGGTCATTGATCATTGGATCCATAAGAGATGTTAGGTGATCTTCAATCC  
25201 TCCTAAATTATAATGAGAAAAGAGATAACAGAAAATGTTATGTTATGTTGCCCCAGGTATTAAACAAATTACTGGGTATAATGGCAGGATTGAGTTAGA  
25301 ACTCAAGGTTGCTTGTCTGTTCTGATTCCCTAGTCAGCTTCATAGACTTTAGGACTTAGCTATTCGAAGTACTATAAAAGAGAAATAAACATG

exon9

25401 GTTTCACTAATGGAAATTCTAGAAAACAAATTTCAGACTATTTCTATTTTCAGATGTTGACTTGAGTAAATATACCACTATTGCTGGA  
exon9

25501 GTCATGACACTAAGTCAAGTTAAAGGCTTGTCGAAAGAATGGTGTCAATGAGCCAAATAGATGAGATCAAGAATGACAATGTCAGACACAGCAG  
exon9

25601 AACAGAAAGTTCAACTGCTCGTAATTGGCATCAACTCATGGAAAGAAAGAGCGTATGACACATTGATTAAGATCTCAAAAAGCCAATCTTGAC  
exon9

25701 TCTGCAGAGAAAATTCAAGACTATCCCTCAAGGACATTACTAGTGACTCAGAAAATTCAAACCTTCAGAAATGAAATCCAAAGCTGGTCTAGACTGAA  
exon9  
stop codon

25801 AAACAACAAATTCAAGTCTGACTATATGCAATTAGTGTGAAAGATTCTAATAGCTGGCTGAAATAC TGCTGGTTTTACTGGTACATTAT  
exon9

25901 CATTATTAGCGCTGAAGAGCCAACATATTGTAGATTTAATATCTCATGATTCTGCCCTCAAGGATGTTAAATCTAGTTGGAAAACAAACTTC  
exon9

26001 TCAAGAGTAAATCAGTGGCATGCTAAGTACCCAAATAGGAGTGTATGCAGAGGATGAAAGATTAAGATTATGCTCTGGCATCTAACATATGATTCTGTA  
exon9

26101 GTATGAATGTAATCAGTGTATGTTAGTACAAATGCTATCCACAGGCTAACCCACTCTATGAATCAATAGAAGACTATGACCTTTGCTGAAATATC  
exon9

26201 AGTTACTGAAACAGGCAGGCCACTTGCCTCTAAATTACCTCTGATAATTCTAGAGATTTACCATATTCTAAACTTTGTTATAACTCTGAGAAGATCA  
exon9  
9e. 3' UTR+564  
T

26301 TATTATGTAAGTATATGTATTGACTGCAGAATTAAATAAGGCTCTACCTCAAAGACCTTGCACAGITATTGGTGTCAATTATAACATATTCA  
exon9

26401 ATTGTGAATTCACATAGAAAACATTAAATTATAATGTTGACTATTATATATGTTGATGCATTACTGGCTCAAAACTACCTACTTCTTCAGGCAT  
exon9

26501 CAAAAGCATTGAGCAGGAGACTTACTAGAGCTTGCACCTCTCATTGGTGCATCTTAATGGCTAATGCCAAACATGG  
exon9

26601 AATATCACCAAAAAACTTAATAGTCACCAAAAGGCAAGACTGCCCTTAGAAATTCTAGCCTGGTTGGAGATACTAACTGCTCTCAGAGAAAGTAGC  
exon9

FIG. 4F

**Heller Ehrman White & McAuliffe, LLP**  
 Sheet 44 of 113  
**Title: Genes and Polymorphisms on Chromosome 10**  
 Associated with Alzheimer's Disease and Other  
 Neurodegenerative Diseases  
**Serial No. To be assigned**   **Applicants: Becker *et al.***  
**Date of Filing: 6/18/03**   **Attny Dkt No. 37481-3308B**

26701 TTTGTGACATGTCATGAACCCATGTTGCAATCAAAGATGATAAAATAGATTCTTATTTCCCCACCCCCGAAAATGTTCAATAATGTCCCAGTAAAGATT  
 exon9

26801 ACCTGCTACAATGGCAGCTATACATAGCAATGGTAAAATCATCATCTGGATTAGGAATTGCTTGTCAACCCCAAGTTCTAAGATTTAAGATT

exon9

26901 CTCCTTACTACTATCCTACGTTAAATATCTTGAAAGTTGTATTAAATGTGAATTAAAGAAATAATATTATATTCTGAAATGTAAACTGTGAAG  
 exon9

27001 ATAGTTATAAACTGAAGCAGATACCTGGAACCCACTAAAGAACCTTCATTTATGGAGGATTTTTGCCCCCTGTGTTGGAATTATAAAATAGGTAA  
 exon9

27101 AAGTACGTAATTAAATAATGTTTTGGTATTCCTGGTTCTCTTTGGTAGGGGCTTGCTTTGGTTTGTCTCCTTCTAACTGATGCTAA  
 27201 ATATAACTTGTCTTAAATGCTTCTGGATCCCTAGAAAGGTACTCCCTTAACCTTTAGTAGTTAAATAATTATTCATAGGTGGCTAT  
 27301 TGCCAAGAACCTCTCCAAACAGCACATGATTTCTGTAACAGTTCTGATTTCTGCAATTATCCTTAGCTACATGCTGGCCAGTGGCCACCTTCTTT  
 27401 AGTTTTATTAAGAAACCAAATGAGGATTGAAATATCTTCTGCAATTATCCTTAGCTACATGCTGGCCAGTGGCCACCTTCTTT  
 27501 CTGCAATTAAATGCTAGTAATATCTTAAACCCATGAGTCCCAAAGATTAGCATTCAACATGTAACCATGTCGGTAAGATAGTTGTGTTTGCT  
 27601 TAGGGTTCCCTCTGTTATGGCTGAAAGTGTCTTAGGCAGAAAGTCTGAGTGTGATCACAGGTTCACTTCAATTATCTCTGAGGCCATCAT  
 27701 AGTCTGTGCTGCTCTCCAGTTCTGAGCAGAGTAGGGCAAGTAGGTACTAGTTATTCTCATGCCAGAAGTCAAGTCTACTTGT  
 27801 CAACACAAGATTAAGTTAGAGAACACCCCTATCCACTTTGGTAACCTAGAGGCAAGAACATTGAGTTCCCTGGGAGGAAGACAGTGGAGAAGTCTTGT  
 27901 ACTTGGTGTGTTCTCTGCTCATGGCTTCACCTACTGGCCCAACCATGACTTCTCCCATGCAATGACCACGCCACATTCCCGAGTTGAGGTGA  
 28001 CCCCACGGCCAGAACTCATCTCATGGTGAACCTGGTTCTTTGTTGGGGCATACTGGTAGGAGAATCACCCAAAGGTACCCATGAGCTGCA  
 28101 AAAAAAAGGCTATTGCA

**FIG. 4G**

**Heller Ehrman White & McAuliffe, LLP**

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## Title: Genes and Polymorphisms on Chromosome 10

#### **Associated with Alzheimer's Disease and Other**

## **Neurodegenerative Diseases**

Serial No. To be assigned Applicants: Becker *et al.*

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us-703

6

us-593

as 333

1301 GCACTTATCACACACCTCATGTTATTATACTGTATTCTTCATGATGTGTCCTTCCATCAGAATATACAAAGAACAGGAACCTTGTGGTCTGTTCTA  
 1401 TACCTCCACTGTCTTACTAAAGCCCTGCATTAGTAGGTGCTCAATAAAATCTTGTGTTAGAACATTAATAAATATGTCATATTGCAATATG  
 1501 TTCTCCTCTTTAAACAAATCTTAAATAATAAAAAAAATTAAAGCAGCAAGATTGCTTGCATCAGGCCAATATGCAACGGCTTAAATGGACCCATGA  
 1601 TTCACTTCTTATTATAGAGCCCCAACATGCTCTCTGCTGAGCGCAGAAGGTGCGCAGGAGCTTGGGGGGCGAGCAGAAGGCCCTAAACAGC  
 1701 CTTTGCTAAGAGAGCATGCGTAGGCGACGCCGCTGGTAGACGTGTTGGACCTGCCAGGCTGCCAGGGCTCCATCTTCTTAAAGCCTACGG

us-59 us-48  
(--1232326) (--1232327)

(rs1332326) (rs1332

exon 01

exon 01

1901 TGAACAAATAGTCCGAGGGTGGTGGCATCCCGCCTCCGCACAAGCAGACCAGGCCCTGCAGGTCCCCTATCCGCACCCCGGCCCTGAGAGCTGGC  
NFL binding site                    SPl binding site

1 i.D+36

13

5901 ATAAATAAATAAATAAATAAATAAATAAATAAATAAATTTAAAAATTCCCTTATTCAGATATGGCTGGAGTCATTTGTTTCA

FIG. 5A

**Heller Ehrman White & McAuliffe, LLP**

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## **Title: Genes and Polymorphisms on Chromosome 10**

#### **Associated with Alzheimer's Disease and Other**

## **Neurodegenerative Diseases**

**Serial No. To be assigned      Applicants: Becker *et al.***

Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

1 i .A-64

T

6001 TATTTTCCTTCAACCTTTACTGCCCTAAATCTGGTTAGAACTTTTGTGGAGCATTAAGTTACCGAGAATTCTTGCTAGTAAAATTCAAGCAAA

2e.CDS+46  
rs1051338)

2e.CDS+67  
(rs1051339)

6101 TAATAATAGACTGTTTATTATACAGAATGAAAATGCCCTCTGGGGTTGGCTGTTGGTTCTCTGGACCCCTGCATTCTGAGGGGTCTGGAGGGA  
start codon

**exon 02**

CDs+46  
051338)

2e.CDS+67  
(rs1051339)

6201 AACTGACAGCTGTGGATCCGAAACAAACATGAATGTGTAAGTTCTCAAAGTTATGTACTTTAAATGCATCTATTCCCCGATCAGTTATGTGAG  
6301 CTACATGAGGCATACCCATACATTCTCATCTTATAACTCCCTTGCTTTCAATTCTGAAATTTTTTTTTTTTTTTTTTTTTTGGAGG  
6401 CAGACTCTTACTCTGTCACCTGGCCCGCCGAGCTGGGACTGCAGTGGTGTGATCTCGGCTCATTGGCACCTCGGCCCTCAGGGGCTCAAGGGTATTCTCGCAGC  
6501 CTGAGCTTCCCAGTAGCTGGGACTCACGGCATGCAACACCAGTCGCTGGCAATTTTTTCTGATTAGTAGATAGACGGGCTTACCATCTGGCCAGGG  
6601 TGGTCTTGAACCTCTGAGCTCAGGTGATCTGTCACCTCAAGCTCTCCAAAGTCTGGGATTACAGGCGTGGCCACCCGTCGCCCCAATTCTCTGAA  
6701 TCTTGTAGATTCATAATTGCTAGGCTTCTCAGCAGGTAATATGTGACCAACAAACCTCAGTTAATGTTATATATACTCTTAAATAGATAAATTATGAT  
6801 TTATTATTAATTCATCTCATCTTAACTGTCATAAGTGTGTTAAACATAAAAAGTATTAAACATTTGCAAGAACATTCACCCCTATTAGAGCTGGTT  
6901 TTAGAAATCATGTGAAACAAAGGTGTTGATTAAGAATGTGTCAGGGAACATATTCTATACAGAAGTCAAAGTATCTGAGCTAAATTTTGTGAGAAAATAT  
7001 GCAAAATAACACTCAGCTAAATTAAACATCTGAAAGTTAATCTGTAAGTAACTTACAAAAAAATCTGGAATACCTCTTACGGCACAATATCAGTA  
7101 AAGTACAAATTAAAGAAAACAGCAACATTAAAAATAGATGTGTCAGTGGCAGTGGCCACGCTGAAGAACATCAGGCAACTTGGGACTCTGGCAGAAAATTCACAG  
7201 TGAGCCAGGGAGATGTGACCTGATAACAGGGCTTAAAGTTAATCTCTTACAGCTCAAAGCTTCTTGCCTCCAAATTTCCTTAACTTTAA  
7301 ATAAATTTTAAATAAGAATTAATAAAATTAACTTCTTCAGTAACTTGTAGGAGAGGGTATGTGCACTTATTACATAAAATCCCCCTGATAATTGAA  
7401 TTATTCATCATCCACTGAGCTCTGATTAACAAATGTCCTCATGAACTTCTCTTATAGAAAGTGAATGTCACCATTAATTCCTTATTGTTCAACATT  
7501 CTTCCATCCACCTTGACATTCTGTAATTATTTACTGCAATTGATAAAAACAAGTTAATTTTTATACTTTATTTGCCCACAGGGGATCTCTAA  
7601 ACAAAAGGAGATGTGTTTATACATGCAAGCTTGTAGCTGGGATATTAGAAAGAAGAAGAATGAGCAATTATTGTCGCCCCGAGGAGTGGAGGAAACAAAG  
7701 AGGGCCAAGATGTGTTAAGTGGCAAAATTGTGATAAAACATGTCAGAATGTAACACTGAGCTTAAACAGCAGCAGGGTACGGCAGGGATGGAACACAGCTG

2 i.A-163

6

7801 AAAACAAGGGAGGATTTACTGTGTATGAGAAGTTGGCTACTAGATTTAGCAGACTAAAATTCAATGACAAATGCTTCTTAAAGCCTGGAGAACATAG

exon 03

7901 TTTATCTGCTCCTTGCTTAACTGGGAGACTGTTCAAGATTCTGCCACCCAATTCCATCGTCCTTTCTACAGAGTGAAATTATCTCTTAC

exon 03

FIG. 5B

**Heller Ehrman White & McAuliffe, LLP**

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## Title: Genes and Polymorphisms on Chromosome 10

## **Associated with Alzheimer's Disease and Other**

## **Neurodegenerative Diseases**

**Serial No. To be assigned**      **Applicants: Becker *et al.***

Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

Date of Filing: 6/16/01

FIG. 5C

**Heller Ehrman White & McAuliffe, LLP**

Sheet 48 of 113

**Title: Genes and Polymorphisms on Chromosome 10**

## **Genes and Polymorphisms Associated with Alzheimer's Disease and Other**

#### **Neurodegenerative Diseases**

**Neurodegenerative Diseases**

Date of Filing: 6/18/03 Attny Rkt No: 37481-3308B

3 i.A-95  
(rs2071509)

26701 TGCATACTCAGTATGTGTGCTCTATTTTTATGACTAATTCAATGAAAGAGTCCTTCTGGATTACAGTTATGAGATGCCAAAATATGACCTAC

FIG. 5D

## **Heller Ehrman White & McAuliffe, LLP**

Sheet 49 of 113

## Title: Genes and Polymorphisms on Chromosome 10

#### **Associated with Alzheimer's Disease and Other**

## **Neurodegenerative Diseases**

**Serial No. To be assigned**      **Applicants: Becker *et al.***

Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

exon 05

5i.A-95

( 13-nt del )

28401 TGTCAAGTGTTCGGCTCCTGCTGGTGATTGTTGCGTGGGTCTCAGGCC  
**TCCCGAGAGGGC**GTCGCGAGTGCACGGCTTTGTGTTTCTGAGAAGG

5i.A-5

exon 06

28501 AAATCCCAGATGATGGAATTCTCTGTCTTCTGTCCTTTGTTCTCACAGGGTTTAATAGCAATTTCACAGATCCCTGAGCTGGCTAAAGGAATTAAAAATGTTT

exon 06

28601 TTTGCCCTGGGTCCCTGGCTTCGCGCCCTCTGTACTAGCCCTATGCCAAATTAGGACGATTACCAAGATCATCTATTAAAGGTACTTGGACCCCTC

6i.D+62

C  
28701 CATCCCTCTCTCTCCCCGAGATTTCTCTGAGATCTGAAGAACTGGCAAGGGGAGGGATAATCTGTGCCTTCCTCCCTCGCTTGTATATCAGTGG  
28801 AGGAGTGGGGCTTTCTTTCTGGTTAACCCCTCTTCCACAGGCCAGGGTGGCGGGGAGCCCTGTGCTGTTCTCTGCAACTGTGGCACCTGTACTCATG  
28901 GTTAGCATGTGTCAGTACAGCTCTGCCAACCTCAGGGAGACAGGGAGATCTGGAGAAGAAATTAAAGCTTGTGGACTTGCCCTTATCCAT  
29001 GAGGTGGCTCTGCCCCAACAGGATCTGGAGATGGAACTTGTGCAACTGTGGAGGCTTACAGGGTGGACTCAACAGCTATCA  
29101 TATTGTGTTTAAATATGCTCTCAAACACAGGCTAGTCTCATCAGGGCTCTGCCCTAAACGCTTGTGGCACCCGGAACCTCTGTGCAAGGGAGAAATA  
29201 GATTTCATGAAAAGACATTTCAGCTAGGAGCATGCTTCTATTATGCTGATCATGATCATTTATGCTTGTGGCACCCGGAACCTCTGTGCAAGGGAGAAATA  
29301 AAATCTGTATAGAAATATATACATGAIAATGAGGTAAACGCTCTCATGGCCATTAGACTTAAGGAACTTAACTAGGAAATGGAATCTCTAGGCTTAGGC  
29401 AGTCTCTCTCTCTGGCCCTAAAGCTGGGATTACAGGCTAGGCCATTACAGGCTACCCGCTGGCAAAATTAAAAAAATTAAAAAAACAAACGGA  
29501 CGATGGGGCTGGATTTCGGCTCTGGCCAGTAGCTGATTAGCATGGCAACACTTCTGGCAGACATTACTGATCAATCACAGGCTTGACTGTTCTTAGA  
29601 AGTAACCACCGATCCATCAGAGTCAGATGAAAATTACTTGGGGATGGCCCTGGGAGGGGTGATCATTAAGGCCCTTCCACTGTAGAAGTCGGCTGAAA  
29701 ACTTATTGTTGTTCTGGCTCTTCTCTGATTTGGAAATTAAACACTCTGTAGTGTGATTTCTGGCTTGTGAAATTCTGTGCAAAAGCATCTC  
29801 GATTGTGATCTTCACTGGTTCGATTCTCTGGAGGCAATTCTGGTGTGAGGTTGAGCTTGTGCAACTGTGGCTCTGGTGTGAGGACTTACGCG  
29901 GATGGGGCTGGATTTCGGCTCTGGGAGGCTTCTGGGAGGGGTGATCATTAAGGCCCTTCCACTGTAGAAGTCGGCTGAAA

5i, A-4

(r\$1556478)

exon 07

exer. 07

30001	GTACCCACGTTGCACTCATGCACTGAAGGAGCTCTGGAAATCTCTGTTTCTCTGTGTGATTAAATGAGAGAAATTAAATATGGTATGCAT
30101	GTTTATAGTAAGATTGATTTTTTTATCTGTGAATGTCTTATTGTGTGAATGATACTGGGAGAGGTGGGAATGACCTCATCAGAACCTCTAAAGA
30201	CTCTTCTTCAATTGGAGGCCAACAGCATACCTTGGCCAATGCCCTAGAACCTGGGACTACCTGGGCACTTCAGGGACTCTGTGGCCTCTTCTTGT
30301	TGTACCTCATGGACATTATTGAATGAGGAGATCTGTCAACAAATTAACTGTGAATTATTATAATTACTCTAGTGTATTGTTCTCTTGTGAAATTATATA
30401	AGTATAAACATAAGATGGAAACAATAGACAGTGGGGACTCCAAAAGGAAGGGAGAGGGACAAGGGCTGAAGCCCTCTTGACTACTATAGCCAAATT
30501	GAGTACTGTGCTTATGGCAATCAATTAGAACGCCGATCTCAGCATCAGCAATCACCCTTGTAAACAAACCTGCACTGGACCCCCCGAAATTAACAC
30601	CAAATTTCAAAATTACTATAAGTTATTAAATTGGCAACGGCCATTTCACATACATAAGTGTGCTTGCACTGGTGTGTTTATTAAGTACATT
30701	TTATAAAATGTAAACCCATTATTATTATAAAAATATAACCCCTTGGCCAATACTATGCCGTGTITCTAAATATGTTGTGATTGTGATGTGGCATT
30801	TGAAAAAAAGGGTTAAAATCTGGAAATAAGGCCCTAAGGAATTCTGCCCATTTCCTTGTGTGAATTAAGCAAGGTGATGTGTTATATAAGGAA
30901	AATTGGCAAAATCAGGAAAGCTGAACAAATGCCCCCTAAACGACACAGTCCTGGTGTCTAACCATGTTGTCACCTCTTGTGATGTGCTAGA
31001	TGGACTTTGTATGTGTTGTATGTATTGTTATAGGGCAGATTGTTAGTCAAATATTGTTCTACCTCTCATCTCACATACTTGAGATTATGGCTAG

exon 08

31101 TTTTTAGTGTGCAAGGGCAAAATACAATGTTATTATCAATGCCACCTTAATGCTGTTTCATTCTCATTCAATGTATTTATTTGCAGGTAGAG

exon 08

31201 TGCACTGATATAACACACATTCTCCCTGGAACTTCTGTGCAAAACATGTCTACACTGGAGGCCAGTAGGCATTCCAGGAGTCATTGGGTTCTAGTA  
31301 AAATCACACATCAGAAAGGTCATGGGCGATAGAACCCCTTCAAATAGAGAACACCTGCTTACAATCTGTCTGGTTCTCCCAAAGAGTCCTGGGT  
31401 TTGGTCATCTGGCTTCTGGTTCTTGTATACCTGTGGGGCACAAGCTGTGTTACCTGGGTACCAAACAGCTACTGGGGTGACATTTTCTTTTCC  
31501 CTCCCTCTCCCCCTCAAGTCTCAGGTTAATATATTCTCTCCCTTCTCCCCACGTTTCTTCTCTCTCTCCCTCCATCTGCTTC  
31601 TCATTGAGCTCTAGATTTTTTATTTCTGTGTCCTCATAAAGAGTGATTTTAAGTCGTTTTGGAGATAGAAACGCTGTTAACACATAACCCCTG  
31701 ATCACAAATATGCTGGAAATCAGCTGAATAAACCTGGAGCTAACCAATGATAGATGTGAATGGGGCCCTTGAGCTTTGAAATACAGTTTGTATT  
31801 ATCATGTAATAAGTCATCTCATTCTAGAAAATTAGAAAACATCTAGAAAAAAATTATCTTAAATGAAAATAAATCATTCTATAACCCCTAGACA  
31901 GAGAGGAAATGTCATCCATAGATTTAGAATGTCCTGCACTTCTATTCAGCTTCAAAAGAGTCGTTAAAGACATGGTAGAAAATAGTAGAT  
32001 GTGAAAATACATTGATTCTCTGGCTTACACTGTTTACAGCTGCTTCTTCACTGGGAGTCCTGGGAGTCCTTCTACCTCAGGACATA

## **Heller Ehrman White & McAuliffe, LLP**

Sheet 50 of 113

## Title: Genes and Polymorphisms on Chromosome 10 and Their Association with Alzheimer's Disease and Other

### **Associated with Alzheimer's Disease and Other Neurodegenerative Diseases**

## **Neurodegenerative Diseases**

**Serial No. To be assigned**      **Applicants:** Becker *et al.*  
**Date of Filing:** 6/18/03      **Attny Dkt No:** 37481 3308B

Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

32101 ATTTTGTGCCATTATTTCACTGAACTTCAATTATAATGAAAACAACCTACCATTAAAGCCCTAACCAAAGACTGTAGGTGTCCTGAATAGTATT  
32201 TICCAACACCTGGCAGTCAGTCTGCATCAGAACCTTAAAGACTTAAATCATTGCACTTAAAGAATGAGAGTT  
32301 GGAATTATAGTGGAATTATAACAAACAAATCTCTGTGCTTCACTATTGGACTACAGAACATGTGACTTTTATTTCTGTTTATTATTTTTG  
32401 AGATGGACTCTCACTCTGGCCAGGCTGGAGTGAGTGACTGGTGCGATCTGGCTACTGCAACCTCCGCCCTCCAGCTATGATTCCTGCC  
32501 CTCCCGAGTCCTTATTATTTTAAAGAAATTTTATTTGAGGTAACTAGCATGAGATTAATGAAATGATATTGATATTCTAGTGTGTTGTA  
32601 TACACCTGTGAAACCATCACCAATACGACACAGAACATATCATCATTCTAAAGCTCCCTGTCGCCCCCTTGTGATACCTCCCCCATCCC  
32701 CAATCCCACTGATCTGTTCTGTCTAGTGTAGCTTAGTTGCACTTTCTAGAGCTTCATGAGAACAGTCATGAGCTTATACTGTTTGTCTGG  
32801 CTCCCACTGAGAACTATTGTTGGAATTCTCTGTGTTGATCTGCTAGTGTAGCTTCTTCTTATTTCTGAGGATCTGCACTTTAAAGAAC  
32901 TTGAGATGATTCTTGTGCCACAGGTCTGGAGCAGACCTTCTGGGACATCTGTGATACCTCTTCTGAGTCTCCCTGGAGACTTAAAG  
33001 CTATAGTTCTCTTCTGGGCTCTGCTCTAAGGAACCTAGGAAGAGCCTGGCTGAGGCTCTGGTCTTATAGTAACCTAGAGGCTGAGAGTAA  
33101 TGCTGAGTCCTCAGGGCCAGAAGTTGTTGCGCTAAAGGAGGAGGAGGCTATGGAACTGCAACAGCAGTCCTACCTTAA  
33201 GGAATGCCCAACACCTTAAACCTCAAAATTCAACAAATGTTGAGCTTCTGGTCTCAGGTCTCTGCTGCACTTCTGCTGATCTGCT  
33301 TATAGTCATCTTCTCATATACCTGTCACTAGAAATCTCCCTACATTGAGGATGCCCTAGGACCTTACCTAAATGGACATTCTAAAGGC  
33401 CCAATGTCGTACCTCATGTTTACGCCACCCAGAGGATGATGAGGAGGACTGACTGAGCTGCCAGAGACTCTGGCTGAGCTTCC  
33501 CTGTCACAGGCCACACAGTACAGCAGCAGGCTCTGCAAGAACTGAAACATGGCCACAGGACTCTGGGATCTGAGGAGCTCTGG  
33601 CTGTCCTAGGCAACTCTATTATATTACAGACCTGTGTTGCTTACCCCTCTGTCGTTGGGCTCCACTGGGATGGGTTTGCA  
33701 GATCGGTATCATCTAGGCTACTGGTCTGGCCAGCCCTTATCCAGCAGCTGGCAGGGTCAAAGGCTGAGGGTGAAGGAGACTGCT  
33801 GGGCAATTCTGACCTGCTGTTAGATTCAACTACCTCCGAAATACCTCCGAAATATTGCAAAACCCAGATTTGCTCTAAGGGCAGCT  
33901 TTTGCTCTTCTACCCGCTGTACCATCTTGTCACTAAATGGTTGCTTGTGAGCCTTGTGATGGGATCTCCCTTGGCTTCTCTGG  
34001 GCTGTTGGCCAGGGCTGCCACTGGTGCAGGCTGAGGCTCTGCAAGGAGCAGTCAGGAGGAAAGGGCTCTGGAGCTGGCCAG  
34101 GGGGGCTGAAATTCACTGGTGGCATTAGGGCTTATGGTATGACTTTGGGGTTGACCTTAAAGGCCATTCTGTTACAGTCATT  
34201 CTTTGTGTTAAATTAATAGGAAATTAGGAAATTAGGAAATTAGGAAATTAGGAAATTAGGAAATTAGGAAATTAGGAAATTAGG  
34301 TAAACCTGTGATTAATTCGGAGCTCCAGGCAACAGTGTATTAATCTCCTACTGGCCAGGGTCAAAGGCTGAGGGTGAAGGAG  
34401 AGAAAGGCCATCTGGCTGTAGTTTICACTGTGTTCTGACTTACCTGGCTACTAACGGTCTTAAAGGCTGTTAAATTAATCTG  
34501 CTGAAATTCTCTAGGGCTGTGACCCCTGGGATCTATGTTGACTTAAAGCTCTGGCTTCTGGATATTACCTGGCTCTT  
34601 TTTTGGTAGGTTTAAAGAACACTGTAAAGGATATTCACTGATAATTGTTGTTAAACATGTAATATGTTGTTAAATTTGAA  
34701 AAGAAAATGACTGTGATCTAGCACCAGCAATAGGCCATTAAATTTGTTGTTAAATTTGTTGATAATATGTTGTTAAATTTGAA  
34801 CAGATCATACATCATCTGTTTATGAAATTCTGTTAAATTAAGGAAATGCACTTATGTTGTTAGCAACTAAAGCTGTT  
34901 ACAGCTCTAAATAAGAGTTATTCTCTCATATAAAAGTCAAGGAGAGGCTGCCCAGAGGCCGAGACTCTCAGCTGTT  
35001 CCATGAGGCCAGGCCCCAGTCTCCCTCATACTTACGGCTGCTGGGATCTATGTTGACTTAAAGCTCTGGGCTTCTGCT  
35101 AACTCACAGGAAGGCCAGGGGGAGAGGCCAGTCTGGGCTGCTGGGAGGAGATCTGGCTTCTGGCTGCTGGCTCTGG  
35201 AGGAGGATGAGGATGTGGTTCTATCTGCCAGGCCATGTACTTAGGAAAGCTTCTGGGATCTGGCTACTGAAAGGAAG  
35301 GGCAGTCTCTGCCATACTTAAAGATGCCCTTCCGGCTGACTAACTAAAGTTTAAATTTGTTGATAATATGTTGTT  
35401 CATTGTTGTTTGTGAGTGTGTTGGCAGTCATAAATCATCTGCTCTTATGTTGAGTGTGTTCTGGATGATACATT  
35501 TAGTAAGGGAGGGTAGGCTAGCTTAAGACTCTAATACATATTGACTTTAGAAAGCTGAACTCTGGGTT  
35601 ATATAATTAAATGTCATTAAACCTGGTTTCTCATCTAATACTAGGCTTCTCTGATCTTACATATCTGATGATTACACAG  
35701 AAGTATAACCTTGTGTTTCTGTTTCTTCTTCTGTTGACTTATTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT  
35801 ATGACAGTGGCATACCCCTTGTATATTGTAACATATTACCAAAATATCTATTATTGAAATGGAAGTTTG  
35901 AAAGAAAATGCCAGACATTCTCTTCAAAACTGCTTTGGTTATGTGAAAGCTGCTCTTACATGCTACATACCT  
36001 AGAGGCCAGATGATATACCAAGGGATTGTTACTTAAATTTGGGCTTCTGGCTTCTGGATGTAATAAACAC  
36101 TTGAAATATCTTCAAGTGGTAGCTGAGCTCTAACGTGACTTAGGACAAAGTCATAATTGAAACTCTGAGCT  
36201 TATTCTGTGTCAGCTGGCTTCTCATATGATGTGAGGACCATGTCAGAACAGTGTGAGACTGCTGCTCTGCT  
36301 ATATTCTACTGACAAAGTGGGCAACAGATGTCACCAACAGCTGTGAACTTCATTGTTGTTGTTGTTGTTGTT  
36401 TCATTTCCAACGCCAAAAACAGATGCCAAATATTCTCTCTGTAACAACTCCCTATAGTATATCATCT  
36501 TCTATGAGTGTGTTGAGAACAGACTCATCAAATCAAACAGCTTTGGCAAGAAAATGCTGAGCATCT  
36601 ATTACCATTTCAATTCTTGTGCTTGTGTTTGTGTTTGTGTTGATACATTATTTGAGATGTTGAGGAAATCT  
36701 GAATTAAAAAAATGACATTGCTAATATTGTTATATTGAAATATGAAATTGAAATTGAAATCT  
36801 GTATCCCTAAGTAGTTAGAATTGTCGCTGAGCTACTTACTGTTGTTGATATTGATACCACT  
36901 AAATTGACTAATGAGAACAGTGAAGTCAAGTGGCTTAAATGAAATGAGAACAGTGTGAGGAGCT  
37001 ACCAAAATTCAGATCACTCAAGCTCTTATATAAAATGATGCTAGTATTGTCATAGCT  
37101 ACTTATGATGCTTAAATCAATGTAACAGCTGTTGAGTGTGTTGAGCT  
37201 CAAAATTTCTCATCTGCAAAATATCACTGGCTGAACTTACAGGATCAAACTG  
37301 TATCCATCTCTCTCTCTATGTTGATATATGTTGATATGTTGAGGAAATCT  
37401 CTCTTGTGAAAGCTTACGCTGTTGAGCTGAGGAGCT  
37501 TGCATAGTGTGTTCTGTGAGCTGTTGAGCTGCTTAAACAT  
37601 TAAAATGTCATTGGAAATGAGTAATGAGTAAATTGTTGAGGTTGCTGAGCT  
37701 TAAAGTGTGATTCTGGGAGGTTGCTGAGCT  
37801 TAAAGTGTGATTCTGGGAGGTTGCTGAGCT  
37901 TAAAGTGTGATTCTGGGAGGTTGCTGAGCT  
38001 TAAAGTGTGATTCTGGGAGGTTGCTGAGCT

exon 09

37701 CTTTGGTGTCAGATAACTCTTCCAAATTATCTTCTTTAGGCTGTTAAATTCCAAAAGTTCAAGCCTTGACTGGCAAGCAGTGCACAGAATTA

exon 09

9 i.D+46

T

37801 TTTCAATTACAACCCAGGTAAGTTTCTTGTCTTTCATTAAGGGGCCCTGAAACTCATCAAGAAAGCCAGCCTGGCTATCAGGATTCTGGCCAGGCT

37901 CAGGTCTGTTGGGAAAATGTTGGGAGCTTGACTGGTGTGTTGCTCATAGGCCATCAGACACTCTA  
38001 CTCTCTCTTGTCTTTTCCCAGCTTAATAAGAATCATCACTGTATTGCTTAACTCAGAGTAATCACGAACATAGCCTGTAGAGTCAGACACTCTA

AGTGTGAG

38281 TGAAGTGTGATCTTGACCTTGTCTTACACCCAAAGGGAGAAGTAGGAGGCCATGACCCCCAAACTCTTCCAGCCACTATTGCCTTGAGTGTACTACC  
38301

38401 TATGGCAACACAGGTTTCTTGTGGCGGAACTTGAAGATACTCAAAGAGATTAAAAATTAGTCGTAGTCAAACTTACTA  
38501 TCTCATTTGGGGTTAGATTTCTTTTGTGCCGGTAATGCAACTTGAAGATACTCAAAGAGATTAAAAATTAGTCGTAGTCAAACTTACTA

exon 10

38601 GACAATGTTAAATGGAGATTGCGCTTATTGTGATTTGAAAAATTAAAACAACAACAACGAGGCTTCTCTGGTTCCCTTTCATTGTAGAGTTATCCT

**exon.10**

exon 10

exon 10

38701 CCCACATACAATGTGAAGGACATGCTTGTGCCACTGCAGTCGGAGCGGGGTACGACTGGCTTGCAAGATGTCTACGACGTCAATATCTTACTGACTC

FIG. 5F

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10

Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned Applicants: Becker *et al.*

Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

exon 10

38801 AGATCACCAACTGGTGTCCATGAGAGCATTCCGAATGGGAGCATCTTGACTTCATTGGGCCTGGATGCCCTTGGAGGCTTATAAATAAAATTAT

exon 10

38901 TAATCTAATGAGGAATATCAGTGAAAGCTGGACTTGAGCTGTGACCACCAAGTCATGATTATGTCATGTGAAAATGTGTTGCTTCATTTCTGTAAA  
stop codon

exon 10

39001 ACACCTGTTTCTTCCCAGGTCTTTGTTTTATATCCAAGAAAATGATAACTTGAAGATGCCAGTTCACTCTAGTTCAATTAGAAACATACT

exon 10

39101 AGCTATTTTCTTTAATTAGGGCTGGAATAGGAAGGCCAGTGTCTAACCATAGTATTGCTCTTTAACATCTACTGATGTGAAAAGGT

exon 10

39201 CATTATATCCATTCTGTTTAAATTTAAATATATTGACTTTGCCCTTCATAGGACAAAGTAATATATGTGTTGGAATTAAAATTGTTGTCA

exon 10

39301 TTGGTAAATCTGTCACTGACTTAACCGAGGTATAAAAGTACCGAGCTTTCATGTCCTTGCCTTAAGAGCTCTAGCTAACGGCTTGAGTAGAGA

exon 10

39401 TCTAAATGACATTATCATGTTTCCCTGCAGCAGTGCATAGTCAAATCCAGAAATACACAGCTGCCAGTAATAAGGATGCTAACAAATTAA

exon 10

39501 TCAAACCTAACTGTGACAGCTGTGATTGACACGTTAATTGCTCAGGTTAAATGAAATAGTTCCCGCGCTTCAAAACAAATTGCACTGATAAAA

exon 10

39601 CAAAAACAAAAGTATGTTAAATGCTTGAAGACTGATACTCAACCATCTATATTGCTCAGCTCTCAATTGCGAGGCCATAGTTCTACTTATC

exon 10

39701 TGAGAACCAAATCCCTGTGGAGACTATACCACTATTTCTGAGATTAATGACTCTGGAGCCGCTACTGCGTTATGATCACATCTGTCAG

10e.3'UTR+909

A exon 10

39801 CAAAGCCCCGTGGTGCCTGAGAAGTGTCTTGTTCATTTCACCAAATGAAGTGTGAACGTGATTTGGATGCAAACCTCAGCTCAGGGATTCA

exon 10

39901 TTTTGTCCTTAATGATCCCTTATTAAATACACCTGCTTCACGTCCTATGTTGGAAGTCCATTTGCTGCTTCTGCAGCATCAT

10e.3'UTR+1093

T exon 10

40001 TTCCTACAATACTGTCCGGTGGACAAATGACAATTGATATGTTCTGATATAATTACTTAGCTGCACTAACAGTACAATGCTGTTAATGGTTAA

exon 10

40101 TATAGGCAGGGCGAACATACTACTTGTAACTTTAAAGTCTAAACTTTCAATAAAATTGAGTGAGACTTATAGGCC

**FIG. 5G**

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

1 TAGGACAAAATTGATGTAAGGTAAGTCTGTATTTCTAGCATTGTAATAAGTAGGGTTTCTAGCATTTACGAGTTGGC  
81 ATAAAAAAACATGTTCAAATTTATAAAAAGATAAAACCAGCCTTATAACCAGCATTCACTAATAAGATGACAT  
161 TGCTTTATCATCTGCGAACATGTAATGTTTCCACTGATTTACATGAAACCATCAAGTAGAAAGCCAATTGAGGATCAAT  
241 TTTTAAAAGTATTACCTTCTAAATGTTGTAAGGCCTTCATGTCAGCTAGGAGGCTTTAGAAAAGAGCTAAC  
321 TAACCTTCTCGGACAGTGAATTAACAGAATAGGGAGGAATTCTATAGGAATATCATTCAATTAAAGCATTGT  
401 TATATTGGGAAATTCTCTCAGTAATCAAAAGAAAATTAAAATATTAAGAGGCATGTATTAAGAAAATATTCTAC  
481 ATCTATAAGATTTGTAATTACTTGCATTATAATATTCTACATAATGACATTGACAATTGTTGTTGTTCTCT

Exon 26

561 AATAGTGAATCAGAAACTATTAAAGTGGCAAGATGATTTCTTAGGCTCTGGAAAGACTCAGGAATGCATCCACTTGAC

Exon 26

641 TTTCCCATGCCATGGGAATCTTCAGACTTTGCAGCCATGAAGTTAATATGTGGTTTACAAGGGAAACAGTGGCAGAC

CDS end

Exon 26

721 CACGCTGAATTGGTCATGTTCTGAATCACTCAGGCTGCAAAGAAAAAGTTCCCTTTAGTGTATTAACCTAAACA

Exon 26

IDE\_25.i.1

801 TCAGAAATAAGGACATCAACTTTTTGGCGGACACTGGGAGCAACCTCAGTTCTACCTTAAATATACGTGTTTTTGTTT  
881 GGCITGAGGCCGCTCACCTAAACCCATGTATCTGATCTGCTGACCTTCTCTGGATCAGTATGCTGGAGGGTGC  
961 TGAATTGGCTGTACAAACCTATGTAAGTGTCTTAGTCCTTTGTTCTCTGGCAACAAAGGGCTGGCTCACCA  
1041 AGGACTTAGAGGCTTCGCATCAAGGCTTCAGCAGAGTAGCAGAGGCTGGTGTGCCACCCACAAAAGCCTAGTTACACT  
1121 GCCAGTTCTCCTCTGGCAACCTAATGTCATCCCTCTAGATGATTAAATACCGCAGTAACATGGAGAGACTAAAGAA  
1201 GTCTCTCCAGTATTCAGTGTGGCAACAGATGTTGGCCAGAAATGTCATTGCAAATAACACAACACTGTTAAACAGG  
1281 AGGCAAAGGAGACAAGGGTAGAGCTGAGTGAATAGATGTTCAAGGAAACTAAAGTAGAAAGCTTCAACACCTGGTGA  
1361 CCTGAAACTTTAGTCATCACTTTAGTCCCAATGAACAAGTTCTCTGGCCGGGCACAGTGTCTGCTGTGAAT  
1441 CCCAGCACTCTGGAGGCCGACGGCAGGTGACTTGTAGGACTAGTTGAGACCAAGCCTGGCAACATGGTAAACC  
1521 CCATCTCCACTAAAATACAAAACAGCTGGCATGGTGTGGCTGTAAATCCCAGCTACTCAAGAGGCTGAGGCA  
1601 GGATAATTGCTTGAAACCAAGAAGGGTTGAGTGGCTGAGCTGACCTGCACCTCCAGCTGGTGTGAC  
1681 TGAGTGAGACTCCATTCAAAAACAAAAACAAAAACAAAAACAGCTGCTCTCTAAATAGAAAGTCTCTGT  
1761 CAGTACAATCTAACATAACGTATATTCTTACTTGTGGCAAGGCTGGTGTGACAATTATGTCATTGGACAT

Exon 25

1841 GGAACCTCTCAACACAGGACCTATAAGAAAATAAGGTTAATACTTGTACTTATGATACTATCACAAAAGAACAA

Exon 25

1921 AAAAAGAAACTAAACCAAGACTCAGTTAATTAAAACACCGCACCCAGCCCCGTTCATGTAACCTCTCAAAGG  
2001 TTGCTGCTACCCAAAGGCCCTAAAGTACTTGTCTGCCTCTATCCAGAGGCCACCCAGTGATGGCTCATGATATTCTGAG  
2081 GTCATAAAACTTGGCCACAGCAGTTAGGGCCAGGTCTAATGTCAGTTCTGTCACCCAGAGGCCCTGGTAGGT  
2161 TTCTAAACTGTTAGTAAACTTACTAGTTTAAACTGCGGAGAAAGCAGGAGTTAATGCCACAGGACAAACTTGT  
2241 GCCAGTAAAGGAGCAACAGGACTGGGAACCTTAACCTGCTTACCCCATACTCCCCACATGCACTGGTTCATGCAGC  
2321 CTGTTGGAGACACCCCAACGCAACAGCAGCTGTGTTTCTGTGATGCTGTGGCTAGCTGGCATCTATCACCTGGTAT  
2401 TGCCTCTCTCCCTACACCTCATTCTCTTCCCCATTATATCTGCAGACCTTATCTCCAGTTCCGGTCTCACCTCT  
2481 TTTACTTTCTGGTGTCTATAACCCATGTAACGACAAAGGCCAACATCAGATGGCTAACATGAGGCTAAAAGGC  
2561 AACATTGATACTTACAAGAACATCCATTCCCTGGCAAGAACATGGACGGTACCTTATGTCCTGGAGCATCTACTGC

Exon 24

2641 CAACATTCTCTAGGCACAAAGAAGACCGAGGGTCACCCCTTTGCTCCACTAAAGAACTTACAATGAGGTGTTCTCTGAAGA

Exon 24

2721 CTATGAAGAACATCAGCTATCACACAGTCAGATATAGAAAAGATGCTCCCTTCTGGCCGGGTGCAGTGGCTCATGCCTGT  
2801 AATCCCAGCACTTTGGGAGGCCGAGGTGATCAGTTGAGGTCAAGGAGTCAGGAGCTGGCCAACATACTGAA  
2881 ACCCTGTCCTTACCAAAAATACAACATTGCGAACATGCTGTGGCACATGCTTGTAAATCCCAGATACTGGGAGGCTGAG  
2961 GTGGGAGGATTGGCTGACACGAGGAAGCAAGTTGCGCATGTGCGATGAGGAGATCACGCCACTGCACTCCAGGCTGG  
3041 TGACAGAGCAAGACTCTGTCATAAAAAAAAAAAAAAGAAAAAGAAAAAGATACTTCCCTT

FIG. 6A

Heller Ehrman White & McAuliffe, LLP

Sheet 53 of 113

Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

3121 TCTTTCCCCTCACTTACATTATTTAAGCTAGAAAGATTAGCAAGGCCAGCAAGAATTATTCCTTTTCC  
3201 TTTCTTTCTTAECTCTAAGGAAGAAATTCTTACCTAACCAATTTCAGATGAGAAAAGCTGAATCCAAGGAGATTAAAA  
3281 AACTGCTCAAACCTCCTACAGCTAACAAAGTGCCTGACCTAGGATTTAACCTAGCTACTCACTGGGATGGGCTGTG  
3361 CAGGGCTGCACTGGTACCTTAGTGTCTACAGAGACAATGGCTGAGCITAGTCAGGGACAAGCACGAGTCCTGCTC  
3441 CTCTAAGAACCTTCTCACTGCTGTAAACTGTGTTACACCAGAACAGAAAGGAAACTAACAAATTACTGAGTC  
3521 CTGGCTTATACAGCTGCTCATGTCAGCTAACATTAACCTCTGTGAACTAACATCATGATGATTCTACTTTAGA  
3601 GGCATGGACTCTAAGAACACAGCAGCTTACATGAAATTACATGGCTCACACAGTTCTAGTGATGGTGTCAAAGCTAGAG  
3681 TCTGCTGCTCTCCATTCCACCATGCTGCTTGGAGATTCCCTTAGTACTACCATGAATGCCAGCAGTGCTAAGT  
3761 TGGCAGGTGGATCTGTGGGAAGTATGTCCCACCTTCTAACAGCAGACTCTACTGTCTTCTAAAGGGTAC  
3841 AAAATTGTGACAAGTCTCTTATTCTTAGCCACAAGCAGTTCTACATCCTTGTAGAGGAAAGAAATCATCAGCCAA  
3921 CCAAACTCCTAACAGTTTACTAATACGTACTAGTTACTAATGGCAGTTACTAACAGGCTTAAAGCCTGGCTCTA  
4001 TG'TGACTGCAAGGAAGCCCTGGTGTGACACGCACTCTGGCCGTGGCTCCACTCTACTCCCTGCCAGCAGGCAA  
4081 AACAGCCCAGATTCTCACAGGCGCTGCTGACCTCTCCAGCCTCTTCCAGGAACCTCAGCCAGGTCTGCCCTATTAAAC  
4161 ATGTAGTACCTCATCAAAGACTTCTACCTTAGCAGTAAAAGATTCTGTCTCCAAAGATCTCTCCATCTCTGTAC  
4241 CCAAACTTCTTACCTACCCCCCTGTCTACCCACATCAGCAGAACACCTCTCAGTTCAAGATTGTTCCGGATTT  
4321 TCTGACCAACTCTGGACAATCCTCATTTTCTAAACAAACAAACTGCACCTTCTGCAAACATTAAATATGTTCTAAGG  
4401 AACACTACAGTCTGGGAGATATTAGGTATTCTGTGTAAAAAAAGGATGATGGTAAATCAGTTAGAAAATGTTAG  
4481 TCAAATTAAATAAAATCCAGCTAAAGTCTTACTCTGGGACTCTTAAATCTCTTAAATACCAACACTCTGATTCT  
4561 CTAAGAATGCAATAGTCTTCCAAACTGTGTAGGCTACGGTACCTTCTCTAGGTACCCCTTAAATATCTTGCTAC  
4641 CCATGGAACACAGCTAGGAAATGCTGTTCCAGACTTAGCTTAGGCCTGGTTAAATACACTCTCTGTGTTTTTTT  
4721 TTTTTTTTTTTTGTAGATGGAGTCTCGCTCTGCGCAGCTGGAGTGTGCTATCTGGCTACTGCA

rs568657

4801 CCTCCACCTCTGGGTTCAAGTGATTCTCCTGCCCTAGCCTCCTGAGTAGCTGGGATTACAGGCCGTGCCACCACGCC  
4881 GCCTAATTGTTGTTTACTAGTAGAGACGGGTTTACCATGTTGGTCAGGTGGCTCGAATCTCTGACCTCGTGA  
4961 GCCCACCTCGGCCCTCCAAAGTGCTGGGATTACAGGTGTAACCCACGCCAGGGCTCTCTCTCTCTCTCTCTCT  
5041 GCTCTAGCTATGTTTCAAGGTGGCTTGAACCTCTGGGCTCTAGCGATCTCTGTCTCAGCCTCCCCAGCAGCTGG  
5121 ACTACAGGCTATTATGCAAAAGAACAGATAATTAGATGAGACACTCTCTCTCTCTCTCTCTCTCTCTCT  
5201 TGAGGTAAGAAAATCACTGTCCAGGCATCCATTGGTAGCCAAATGGCTCAAATCTCATGGCTGAAAAGGTGCTT  
5281 TCAAATACTGGCTCTCTGCTGCTAGTCTGAAACTATAGTCTCTCTCTCTCTCTCTCTCTCTCTCT  
5361 TACTTGTGCTACAGCCTTAAATTGGCAGAACAGACTGTCTGGAGACGCTTAACAAACTCATGGATGATACAAAAT  
5441 CACCATTCTCAAAGAAACTATCAGCACCTTGGCTCAAAGACTGTACTTTCTTACCCCTCACTCAGCACTAG  
5521 GAGTGGTAATTAAATAACATTAGAACCCCTAGTACAGGAGAAAATGTGATCAAGCCCTATTGTACCAACTTCACA  
5601 AAATCTCTAAAGGATGGCAGGGCAGGACTGAGTCCCGTCAAACACATAATGACAGATACAAACCAAATAGG  
5681 TATCTCTCAAAGGATGGCAGGGCAGGACTGAGTCCCGTCAAACACATAATGACAGATACAAACCAAATAGG  
5761 GCCTAGAACATTAAAGGACATTCTAAGGTACTATGTAATCACAGGTTAAATTGGCTCTTAAAGG  
5841 ATATGAGTATTACACAAACTAGAGGCCAATATATTACAAAAACATATGTAACACTTAGGTGCAATTCCATTGCA

rs489517

5921 GCACAAATTGAGTTTGCTATTAGCATACTTATTACACATTCTACATACCTACCTAATGAAATTGCTATCCTCT

rs2247348

6001 TAGAATTTTATAGGGGAAGATTAGATGGTGTGAAACCTCTTTTTTTTTTTTTTTGAGACAGAGTCTCG  
6081 ACTGTCGCCCCGGCTGCTGTCAGTGCGATCTCAGCTACTGCAACCTCCGCCCTCCGGGTTCAAGTGATTCTCTG  
6161 CCTCAGGCTCTCTGAGTAGCTGGGATTACAGGCCACCCGCCACATGCCAGCTAATTCTTATTATTATTATT  
6241 GAGACAGGGTTTCACTATGTTGGCAGGCTGATCTGAACTCTGACCTCGTGAATTCCACCCACCTTGGCTCCAAAGTG  
6321 CTGGGATTACAGCGTGAGCCACACGCCAGCCGGTGTGAATCTCTTAAACCTTGTGGGAAGACTTTAATGGCTG  
6401 CTCCCTTCTTTGATAGACTTCTCTAGTGACGCGAACGATGTAAGGAACTTATATCTGACCCAAATTCAAAGGTG  
6481 AGTAATCATTTTAAAGGAGCCACACTGGCAGCCTAAATGGTGAAGATAATTAGTTGTCAGAGCTGGAAA  
6561 TAATCTGATTCTCACTTCTTTGTTCTTCTCTCTCTCCACAAACAGCTCAGCAATTCTTGTGAGTAG  
6641 GGTGGAGAACAGAGAGAAGAAACTGAAAGGTGCTAAAAGGTAGATGTTGAAGTCAGGAAGGGCTGTCACAGCTTG  
6721 GTTGTAGAGCATGGTCAACTTTGGCTTCTGGCCACACTGGAGAGAAGAATTGTCATGGGCCACACATAAAAATA  
6801 CACTAACATAGCTGATAAGCTAAAAGAAAAAAATTGCAAAATATCTCTATGTTGGCTCATGGCCCGAGGCT  
6881 GCAGGTTGAGAACACTGGTTAGAGGGAGACCAAAACAGTACTTTGGTTCAATAAAACTATCTTATTCTAAAAGTCAT  
6961 TAAGCGTTGTCAAAAGACTCAAATCCACAAACACCTCTCATAAATCCAGCCTGAATGGCTCAAAGCAGCAACACA

FIG. 6B

**Heller Ehrman White & McAuliffe, LLP**  
 Sheet 54 of 113  
**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**  
**Serial No. To be assigned**   **Applicants: Becker *et al.***  
**Date of Filing: 6/18/03**   **Attny Dkt No. 37481-3308B**

IDE\_22i.D+302  
 IDE\_23i.1  
 rs520711

IDE\_23i.2

7041 CAATATAGCACATAACATAGGTGTTGGGTTTGTGAGGCACAGTTTCGCTCTGTCACCCAGACAGGAGTGCAGTGGCA  
 7121 TGATCTCCACTCACTGCAACCTCTGCCCTCCAGGTTCAAGCGATTCTCATGCTTCAGCCTCTGAGTAGCTGGGATTACA  
 7201 GCGGTATGCCACTACGCCAGCTAATTTTGATTTTGTATAAAATGGGTTTACCCATGTTGGCAGGCTGGCTTTA  
 7281 ACTCCTGACCTCAAGTGAACCTTCCACCTTGGCCTCCAAAGTGTGGATTACAGGTGAGGCCGCAACCCAGGCCCT  
 7361 ATAATACTTCATATCAGTCAAATCTAAATATGAATTGACTTACCTTGTAGAATTGATGATATCTTCTGGTAA

Exon 23

7441 GTGTCTTAAATATGCAACCTCAGTGTATCTGAAAAAGTAATCAAACAAATTTTACTAACATTTCATATGAAGCAGC

Exon 23

7521 CCAGAACAGTACACTAAATGACAATATACTTCACTCCAAGACTCTTAAGTATCCATATATATTTTTTGAGACAGAGT  
 7601 TTCACTCTGTCACCCCACGCTGGAGTGCAGTGGCTCGATCTCGGCTCACTGCAACCTCTGCCCTGGGTTCAAGTGATT  
 7681 ACCTGCCCTAAGCCTCTGAGTAGTTGGGATTACAGGCACAAGCAGCTGGCTAATTTTTATATTTCAGCAGAG  
 7761 ATGGGGTTTCGCCATCTGGCTAGGCTCTGAACACTCTGACCTCAAGTGATCTGTCACCTCAGGCTCCAAAGTGC  
 7841 CGGGATTATAGGCGTGAAGCATCGCTGGCCAAGTATTCAACATTTTTTTTGAGATGGAGTGCCTTGCTCT  
 7921 CACCCAGGCTGTGTGCACTGGTGCAGTCTCAGCTACTGTAAGCTCTGCCCTGGGTTCATGCCATTCTCTGCCCTCA  
 8001 GTCTCCCAGTAGCTGGGACTACAGGCGCCGCCACATGCCAGCTAATTTTTTTTTATATTCTTGTAGA  
 8081 TACGGGTTTACCGGTGTTAGCCAGGATGGTCTCGATCTCTGATCTGGGCCCCCTGCCACTCCAAAATGTTG  
 8161 GGATTACAGCGTGAAGCCTCTGCCCTAGGCAACATTTTACCGTACCTGGCTTGGGAGGCCAAGGTGGGATCACTCGAG  
 8241 AAGTGGATGTTGGCTGGCACAGTGGCTCATGCCCTATAATCCAGCACTTGGGAGGCCAAGGTGGGATCACTCGAG  
 8321 GCCAGAAAGTTGAGACCAGCCCTGGCAACATGTTGAAACCCCCTCTCTACTAAATAAAATATAAAATTAGCCAGGCATAGTG  
 8401 GAGTATGGCTCTAGACCTAGCTACTGGGAGAGGCTGAGACATGAGAATCTGGGAACCTGGGAGAGGTTGAGTGCAGTG  
 8481 AGCAAGATCACATCACTACAGCCTGGGAGACAGCAAATGTCATCAAAAAAAAAAAAGGCC  
 8561 AGGTGAGTGGCTCACACCTGAACTCCAGCATTTGGGAGGCCAGGGGATCACCTAAGGTGGGAGTTCGAGA  
 8641 CCACCTGACCAACATGGAGAAACCCCCTCTCTACTAAATAACAAAGTGGTGGCACATGCCCTGTAATCCAGCTACTTG  
 8721 CGAGGCTGAGGCGAGAAATTGCTTGAAACCCGGGGAGGTGGAGGTGGCCTGAGATCTGGCCATTGCACTCCAGCCTG  
 8801 GGCAACAAAGAGCAGAAACTCATCTAAAAAAATAAAATAGGGATGTTAGGAGCTTGGGAGTGGCTCAAGGAGGAG  
 8881 CCAGGCCAGCCTGGATTACATCTGGCTCTCTGGTTAGGAGCTTGGGAGTCACCTCAACTTCTAAGC  
 8961 CTCAGTTCCCTCATCTGAAATTGGGATAATAACTACTTAATAAGGGCTGAGAATTAGGAAAAAGATACATGAC

rs551266

9041 AATAACACTGCTAGGTACACGGAAATGCTCAATAATGAGAGACAGTATTATCATTAAATGTAATCCAACGTGCTAGAT  
 9121 AAATTATTAAGTAGGGCTGGGACTCTGGCTGGCTCACGCCCTGAAATCCCGACACTTGGGAGCTGAGGAGAATCGCTTGA  
 9201 GCCTAGGAATTCAAGGCTACAGTGGACTATGATGACACACTGACTCAAGGCTGGCTGAGAGATACTCTCTGAA  
 9281 AGAACAAAACAAAATAAAATATGGCTAAGGAAACTGAGGTCAAAGGTTGCTTGTACAAGGAGTTTTAGCTTGT  
 9361 GGTGTCAGAGTAAGAACACAACCCACATCCTCTGACTCTAGTACAGCTTAGCACAATCCGTTGTTAAATCTATGCTCTAG  
 9441 AAGCAAGTGAAGGAAAGCAGTCAAGAACAGAACAGACTTCAGAACAGTCTCCCAAATCTGAAAGGAGTGA  
 9521 CTTGGAGATCCCTACAGGAAATTTGAACTCTGCTCTGAAACGGGAGCATTGCTCAAAGGGGTTCAATCTGGT  
 9601 TTATCTCATTTTTAGTATTATGGAAATAGATACTTGTGATCAGAATCTCAGGATACACTGATGAAACAA  
 9681 AAATGTGAAATTGAATTATAACTTATTGTGAGATATGGTAGATCCAGGTCTAGGTTGGAGGGAAAAAAAGAGA  
 9761 TAAGGTCTCTAACAGAAAATCTGGGTTAAATTAAGTAAACAGCTTGTGAAAGTGGCAGGCTACCCCCACCCCAACTCC  
 9841 CAAATAGGTAAACGGAAATACCTCACCTACAAATGAAATTGCTTGTAGAATGCCCTTAATCAAATCTTACTGAAATGCCCAT  
 9921 AAATGTGGAGCCCTAATTTCACCTACCTCTGTCAAAATTATATTGCTGGAGATGTTCTCCCCAGTATTAGCACA

Exon 22

10001 CTCAGCAGATAGCTTCTTGGTTGTCTAGTCAGCAATTGCTAATGCCCTGAATGTGTTTTGGAGGCCCTTCTGTCA

Exon 22

10081 TGTCCTCTATGGACTTTCCATGGTAATTAAAGAAAGCTCCACTCTGCTTTAGGTAGTGAGGTGGCTTTCTGACTGG

Exon 22

rs1042444

10161 ATGATGAATCTCAAGCCCTGTATGCCATTAGCTCGACGTGGCCGCTGAAGACGATATGCCCTGAAACACAGACATCAGC

Exon 22

10241 CAGTCATGACCGTGGCATTGAGACACCTGGGTCAATTCTCAAACACTAACCTGTCTGAGCAAATAAAATCTAGT

**FIG. 6C**

**Heller Ehrman White & McAuliffe, LLP**  
 Sheet 55 of 113  
**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**  
**Serial No. To be assigned**   **Applicants: Becker et al.**  
**Date of Filing: 6/18/03**   **Attny Dkt No. 37481-3308B**

10321 TTAAGGTTTAGAGTATTCACTCTAAAGAAATAGAGCACTAAGATGGTCAGTTCTAAGGACAGAGCAGAACAGAG  
 10401 CTCTCTGAAGAATTACAAACTGGAGATGACTTTCTCTCTTAGGAAAAAAATCTTATTCAACTCCCAT  
 10481 CTTGTCACTCCTCACTCTGTGAGTTAACTCTCTCAATCTATGCTAAAGTTACTCCCAGAAATAAAATGCTGGACTC

rs1887922

10561 ATTTTCATCCCTTAAGTACAGTCCTAGCTGTGTTCTTTAACATCCAAGTCCGCATATGAAACACGGCTCICCTACTGT  
 10641 ATTTCTTGTAGATAATCCATTCTGAACCAATTAAATCAGAACTCTAGAGATCAAGCTAACTAAAAGTCATA  
 10721 CTTCCATGTATCTCATGAGGACATGCACTACCTCTCAACACCTTTCAAACCAAGCTTGGCTTATCTCCTCA  
 10801 GCTGCCCTGCCCTGATCTACCACCTCCAACAGCTGCGCTCTGGGTCTACTCTGAGGAAGTTTCTATCTTACA  
 10881 TAGCCATTCAACAGTTGAGTTCTTGAGATGGACTCTGCTCTGACCCAGCTGGAGTCAGTCCACGATCTCCGC  
 10961 TCACTGCAAACACTCTGCTCCCGGTTCAAGTGAATTCTGCTCTGCGCTCAGCCTCTGAGTAGCTGGGATTACAGGCATGCCACCA  
 11041 CCACQCCCCAGCTAATCTTGTATTAGTAAAGATGGGGTCTCACCATGTTGGCCAGTCGGTCTGAACCTCTGACCT  
 11121 CAGGTGATCCACCCGCCAGCCTCCAAAGTGTGGGATTATAGGGCTGAGCCACCGTGGCCGGCCAATAGTTGAGCT  
 11201 CTTATAATAACATTTACATGCTGACTAAATTATCTCTTACAGGCTGCTGATTGACTTGAGCTCCCTCGA  
 11281 AAGGAAGGACCATCCAGAGCATCCATTCTGCTGAGCTACAGTGGGATTAAACAAATGATGGGACTTGG  
 11361 AGAGACTCATCCTTTCTACTGTTCTTCTGATTACTGGGCTTCTGAGCTTCTCTTCTGAGCTTCTCTCATGATCAAATCT  
 11441 GCCAGTACCTCAAGACTTTAACAGTATCTAAACTGGAACACTTGCTGCGCTCTGATGTCCAGGCTGGGATAT  
 11521 AAAGACGAATGAGAGATAAACCTGCCCTCAAGGAACCTGGGTTAGTGAATCTAAGCTCCTCTGGATGGCTATTCT

IDE\_20i.D+249

11601 CATCTTGCTACCCATAAGCTTGTCTTAGTATCCTTCCCCACCTAAATGCCCTCTTATTGACATGTATGAAATAT

IDE\_21i.1  
rs2275218

11681 GCAGTATCATCTCATAAATAATTGCTTAAATGCTCATAAGATAAGTGAATTGCTTATCTTTAGAAGTGGATCTCTGTAAT  
 11761 AAGGTTTCTCAAGTCTCTAAGTAGACCATGCGTGAATACAGTGTAGGTGAAATGTGAAATGTTACAGGGA

rs538469

11841 AAATAATTCAAGTCTACAGTACCCCTGCTATTCCCCACTTCCCTCTCACCCAACACTGCTCCTGGCGCAGGGTGT

Exon 21

11921 TGAAGCAAGGTTCCGAGATAATCTGACAGAACAGCTCCAGAAACATATTCTCTGAGGTGCTTGCATGCTGTTGGTAG

Exon 21

12001 TATATCTCGATGCCACAGTTATTGTGAACCTCTGATAAACAAACCATCCCTCTAGGAAGTTCAAAAAGA

Exon 21

12081 CAGCAGCAAGTTCAAAAACCTTATTGGGTTAAATAAGTCATGCTATGCTGCCACACTACAGATGATAATTAGA  
 12161 CATTAAATAGAAAAGGGAGGTAGAGAACGCTGGAGTTGATTCTCATGATTCTACTTTCTGATCATGTCACCTTGACC  
 12241 AACAGTCACAACTTACTAAATTATAAAATTGGCAGCACTAAGTCCCTCTCATCAGAAGGAGGGGAGCCACTGCCATGGCTCA  
 12321 CATTATTAGTCCCAGCTTGGGAGGCTGAGGGGGAGGATCAGTGGACCCAGGAGTTGAGGCTGAGTGGCTGAGCTGTG  
 12401 AGTATACACTGCACTCCACACAGAACACAGTGTGAGACCCCTGCTCTGACCAACAAAAAAGAGAGAGAG  
 12481 AGGAACAGTGGCTGTAAGCCTCTCCCTCACCCACCTCACATCTCTAGGCTTTTGACTTTTTTGAGACAAA  
 12561 GTCTTGTCTGTCACCCAGCTGGAGGTGAAGTGGCTCATCTGAGCTACCTGCAACCTCCGCCTACTGGCTCAAGCAAT  
 12641 TCTCTGGCTCAGCCTCTGAGTGGAGCTGGCCATCTGAGCTGGCCACACTGGCTAATTCTATTCTATTGGTAGA  
 12721 TACGGGGTTTGGCCATGTTGGCCACGCTGGCTTGAATTCTGACCTCAGGTGATCGCCCTGCTTGGCCCTCCAAAATG  
 12801 CTGGGATTACAGATGTAGGCCACCACGCCCTGGCTTCTTGTAGGAGACGGAGCTGGCTGTCACCCAG  
 12881 GCTGGAGTGCACTGGTCAATCTGGCTACTGCAACCTCATCTCTGGGTTCAAGCAACTCTCTACCTCAGCCTCCC  
 12961 AAGTAGCCGGGATTACAGGTGGCTGCAACTGGCCACTATGCCAGCTAATTGGTAGAGACGGGGTTACCCATGTT  
 13041 GCCCCAGGCTGCTCAACCTCTGACCTCAGGTGATGCCACCCACCTCAGGCTCCAAAGTGTGGGATACAGGTGTGAG  
 13121 CCACAGCACCGGCTGCCCTTTCATATATATTCTAAACACATCTCTGGTGTGAGCTGATATTGCGCAC  
 13201 TATACTCCAGCCTGGGTGACAGAGTAAGACTCCGCTCTAAAAAATAAAACAAAATAAAAGATAAAACATCTCCCT  
 13281 TATAATGCTGAAATTTCTCTTCACTGAGACAGTGTGACTCTGGCAGCCAGACTGGAGTGCAGTGGCACAAATCA  
 13361 TGGCTCATTGCAAGCCTCAACCTCTGGCTCAAGGCTACATCCACCTCAGGCTCTAAGTAGCTACAGGTGTGCGCCAC  
 13441 TATGCCAGCTAATTGTTATTAAATTGGTAGAAACAGTCTATTACCCAGCTAATCTCAAATTCTGG  
 13521 CTTCAAGCAATTTTACCTTGGCTCCCAAAGTGTGGGATTATAGGAATGAGGCCACCCAGGCTGAATATT  
 13601 CTTTTAAATACTAAGTGGCTTCCATGGAGACTTAAGTGAAGAACTATTAAAGATTCAACATCTGATCAGCTGGCTAATT  
 13681 CAGCATGATTCCTACCACTTAGCATTTGAGAATGAGATGTGAACCTGGCTATTGGTAGAATGAGGAAATTGGGAGG  
 13761 GTACTTAGGAGGCAAAAGAGATAAGATCCTAGGAAAGAGACAGAAAGAGGAGTAGAGTCAGAGAAGTAAGAAGGA

**FIG. 6D**

Heller Ehrman White & McAuliffe, LLP

Sheet 56 of 113

Title: Genes and Polymorphisms on Chromosome 10

Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned Applicants: Becker *et al.*

Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

13841 TGAATTGCACTTTGAAATATTGTTCTACACTGGCCTCACTTGAAGTCACGTGTTATGGCTTGCATAGAATATCCTG  
 13921 AGTCTTTCTCTAATCTGAGTGGCATCAGCACATCCTGAGCTTGCTCGTTAGTGACTGAGGAATAACTGGCAAA  
 14001 GTTGGAAAATAACCACTACCAGATCTGTGATGACTGGCTATGCACAACACAGAGCTGGGCTCAACGTATCTCAAGCAT  
 14081 TCAACAAAGCTATCTGAAGTAATAATATGTTCTAGGCTTAAAGAACACTCAAAATGAACAGACAGACTTGGCT  
 14161 TTAAGGAATGTACAGTCTAACAGAAGATGGAGATGCACCTCAATCCAAACAAGAGAACTGCTAAGTAGCTGAATAG  
 14241 GGAGAATGTACAGTCTAACAGAAGATGGAGATGCACCTCAATCCAAACAAGAGAACTGCTAAGTAGCTGAATAG  
 14321 GAATAAGTACCTTAATAAAATAGGCTGGAAGGAGAACTAGGATGCTAGGACTGGCCATGAAGAGAAAGGGGGAAAGGAG  
 14401 AACACCAATTCTGGAGGATAAAATAGCTGGGAAAGGCAGCACAGATGGTCTAGCATAGGAACAAACAAACATC  
 14481 AAGCTTGGCAAAAAAGCTCTCTTCTCATTAAATACCTCTATTACACAGTTTGAGCAATATTGACAATAATG  
 14561 CTTAAATGAGTTTATCAGAAGGCCACTGTTAATGTAAGAACCTAACATTGAAACCCAAATATAAATTCAAT  
 14641 AAAAGCTTGTGTTAACCTCTTAAATAAAATACTGTAAATGTTACATGTTATCTGCACCTGTGGTTCTAAACAA  
 14721 TTCTGCCAAAAGAACATCTATGGTTCTCAATTAAATATTATAATTCCAGTTCCATTATAATGTTATTTATTCTATG  
 14801 ACTCATAGTCATACCTTGTGATTTTACTCTTAATTCCTCATCAAGTACCCGTCATTCCAGTATCATCT  
 14881 CTTCAAAATTATTGCTATCTCAATTACTTACTTACAGGCTTCCAAAGTAATCTTGTGCTAAACATACCAAA  
 14961 AATCATAACTCTGAAATAGGAGAGGTTCCCAGTAATACCAAAATTGAGCCACCTGTAACT  
 15041 ACCCACACTGTTAGTCCATTCAACATCTACTTACTGTCAAGGAGCTGAACATCTCTAT

Exon 20

15121 ACCGAACCAGCTGACTTGGAGAGGAGGTTGGTATGAGCATGTTCAATGAGGGTGTCTCAACCATCTGCATAATTCC

Exon 20

rs544537

15201 AATGCAGCCTATGGAAAAGATATGCCCAGCATATTACAAAACATAAACATATCTTGTGAAATAACTGGCTTT

Exon 20

15281 GTTTATCATAAAAGTGGATTCTAAACCTTAAATATATTGATCCTATTCAAATGGATAAAAATTGAAATTGTCAGTATG  
 15361 GTCATTTCGAATAGCTCAATATGTAAGTGGCTCAAGTGAAGAACAGACACCCAAACAACTCATCAACACTGATGCTGATGCTG  
 15441 GAAAAAAGGCACTGCCAAAGATGGCTCAAGTGAAGAACAGACACCCAAACAACTCATCAACACTGATGCTGATGCTG  
 15521 GCAAACATAGGCTTATTGTAAGGTAAGATGGCTTGGTAAGAATCTGCTCTGCCACTTATTAGCATCTGACCTTGGGC  
 15601 ATATTGTTCTGGAGGGGTATAGCAGAGTGGTAGAGCAAGGATCTTTCTTTTTTTTGAGACAGGGTTTCGTT  
 15681 CTGTTACCCAGGCTGGAGTCAGTGGCACAATCATAACTCTAGGCTGAGCTCAACCTCTGAGCTCAAGAGATCCTCTG  
 15761 CTCAGCCTCTGAGTAGCTAGGACTACAGGATGCACTACCCACCTGGCTGTTTCAATTGTTAGAGTTATGTT  
 15841 CCCAGGCTGCTCGAACTCTGGGTTCAAGTAACCTCTGCTCAGCCTCCAAAGTACTGAGATGATAGGCGTGAGCC  
 15921 ACTGACCCGGCCGAGACTGAGGATCTTGAGACAGACTGCCACGGAAATTGTAAGTGTCTTCCATGTGCTAAGTACTT  
 16001 AGCATGACTATTAACTCTTACACACATGACGCTAGGTGCTACTGTAACCTAAATTTCAGAAAAGAAAACAGATAAG  
 16081 CACAGCTTAAGACATTTCAAAAGATTACAGATCTAGTATATAGCAGAGCCAGGATTITGAATCCAGGCTGTCTAATTCT  
 16161 ACAGCACGTGCTTATCTACTATACAATTAGCCACCTATACAGAGTAGGGATAATTACTCCCATTCCTCTATGAT  
 16241 TGCAACAGTAGAAAACAGCAGAGGAGGCAGCCATGAAAGTTAGGTCTCAGTTAACCATCATTCTACTTCCCTGTT

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IDE\_18.i.D+98

16321 GCCCTCTACCTTCTCCACAGACCAAGAGGGTTGAGTAACCTAAATGTGTTCCCTATCACACCATGCTGGTTAACATC  
 16401 TTGAGAAAAGACTAGAGGGAAAAAATCTTGCATGATCCACAAAGATGCTAAACCTCAACCCACCTGCTTGT

Exon 19

16481 TATGTTCCATGGAGAAGGGCTCAATGTGCAAGCCGTGACAGGAGCTGAGGTATGAGGGCTTAAGGGAGGAAGGTTA

Exon 19

16561 CATCTGCAAAGGTGTAAGAAGACATAGTGAGCGCTACCTATGAGGGATTTTGTTGAGATAATTGAGACTTACAGAA

Exon 19

16641 GACTTGCAAAATAGTACACAGAGCTCTGAAACACTTCACCTAGTTCCCTAATGTTAACATCTTCTATCATAACCCTCA  
 16721 AAACATAAGAAATTACATTTGTTAAATACTATTAAACTAAACTACAGACTTATTGAGTTTCCCTTATCTTCTTCTTCTT  
 16801 TTTTATTCCAGGATTTGATCCACACCCATTCACTTGTCTATGTCATTGCTTACTGCTTCCCTCAATCTGACAGT  
 16881 TTCTCAGTCTCTCCATATAATTGATCTTAAGACTTTGAGAGTACTGTTCTAGTTATTAGAAACTCCACATT  
 16961 CGGTTGTCTGGCTTTCTCACATTAGATTGATCTGCTTACTACACAAAGAAATACACAAAGGTAATGCCCTTTC  
 17041 TCACTGCATTCTATCAGGGACTCATGAGTTGATATGTTGAGTAGTGTAAACTGATGTTAAACTGATCAGTGGTTAAGGT  
 17121 GGTGCTGCGAGATGCTCTACTGTAATGTTATTGTTATTAAATTAAACTCATATGTCCTATA  
 17201 TGCAATTGGAAAAGCCCACCTTGCCCATCTACACCTATTGTTCTTGTAAATTACTAAATTGTTGGGAAAGTA  
 17281 AATGAGATTATACAATATTCTCTTCTTAAATTGACCACTAAATTGATGCTTACATGTTATTGCTCTAG  
 17361 CAATTATTACTATGGAGTTCTAATGGCAATTCTTCTATTTCCCTTTTACATATTTAAATTCTCTGTA

FIG. 6E

**Heller Ehrman White & McAuliffe, LLP**  
 Sheet 57 of 113  
**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**  
**Serial No. To be assigned**   **Applicants: Becker et al.**  
**Date of Filing: 6/18/03**   **Attny Dkt No. 37481-3308B**

17441 AGGAAGAGCTGCCCTTCTCCATTAGGACACCATAGTAATAACTGCTACATGCAAGATCTACCAATGGATGCTAAAATCA  
 17521 GTGATAGACATTAAAGGAGAACATGGAAATGCAAATAACAAGTGCCTTACACAGATCAGGAATTTCAGATGTTATCT  
 17601 TTCAACTATAAAAGTAGCTACTATTATCCCCACTTTAAAGATAGGAAATGAAAGTTAAGAAAATTAAAGTTGTTGTTCA  
 17681 AAGTCATTAAGCTAGTAATTGCAAGCTGGGATTGATCCTTGTCAATTCAAAGTGATGTTCATCTATTCCACTG  
 17761 TACTGCCTTAGGGTCCCTCACTAGGCTCCCTCGGCACTCTGCAAGCTTCCACCAACTAACCTACCCCCCTTGCTC  
 17841 TCTCTATTAAATGATCTACTTACATTGATCCTACCCACAGACTGGAGCTCCCTGATCAAAGAACCCCCTAATTG  
 17921 ATCATTTAAATTATTTATTTATTTAGACAGAGCTTGTCTGCTCTGCACTCCAGGCTGAAGTCCAGTGGTCAACCT  
 18001 CCGCCTCTGGGTCAAGCGATTCTCTGCCTAGCCTTGTAGTAGCTAGGAATGCAGGATGCACCAACACGCCCTGGC  
 18081 TAATTGGTATTTGTAGAGATGGGTITTCGCATGTTAATTGATCATTTTAACTCAAGCACCTGCAGTTG  
 18161 GGCTGGTCCATGGCAGCAGTCAGTAATGCTGGACCACACTGAACCTGAGTTCTGCTACCCCTGGCACCTGGA

rs2250090

18241 TAGCTGAATGATTAGAGTCAGTAAGAGCCAGCTCTCACACTGAGTTGTTCAAATTAAAGCCATTCTGGCATTTGG  
 18321 ATTATTGTTAGGATATATATCAAATGAAATTATTTACTTGAGCAGAAAATTAAATAAAAAGAAACTGACTAT  
 18401 TCTCTTACAAATCCATTAGGAAGCTTCATATCCCTGAGATACTATAGAGCTTATCTGCTTAAATTAAACATG  
 18481 CCATCTGACCTAGATTCTAACGAAGGGTAATAAAACCTCAACACCTTGTCTTGTATCATTTAAAGTAGGCTTGT  
 18561 TTGCAAACATTAAATTGTTGCTGTTAAAGGTTAATTCTGCTATTAAATTGCTATTAATTGCTATGACCATATGACCAATTCA

rs2149632

18641 TTTTGCAAAGAAAAGCATTTAACTGCTCTGATAAAAAAAATGTACCTGTTCTAGTAAGTGATTTTATAATCTAGTCTCC  
 18721 TATCCAATGCCCTGAGGCAATCAACAAATAATGACTTTCAGTACTTTGCTGATTTGTCAGTGTGACTGACATCAAAGCA  
 18801 TAGTGTACGTAAGTATAAGAACTTGTACAAAAGGTTATTAAACATTCACAGAAATTCTTTTTTTTTTTTTTTTTTG  
 18881 AGATGGAATCTCTGTTGCCAGGCTGGAGTGCAGTGGCACGATCGGCTCACTGCAACCTCTGCCTCTGGGTTCAAGCG  
 18961 ATTCTCTGCCCTCACAGCTTACAGAGTAGCTGGGACTACAGGTGAACGCCACCATGCCAGCTAATTGTTGTTGTA  
 19041 GACGTGGGTTTCACCATGTTGGCAGAATGGTCTCGATCTCTGACCTTGTGATCCTGCCCTCGGCTCCCAAAGTTG  
 19121 CTGAGATTACAGCGTGAAGCCACCATGCCAGCCAGAATTTTTTTTTTTTTTAGAACAGAGTCTACTCTGTC  
 19201 CCCAGGCTGGAGTCAGTGGCATTATCTCGCTCACTGTAAGCTCCGCTCCAGGTTCAAGCACATTCTCTGCCTCAGC  
 19281 CTCCCAGTACTGGGACTACAGGACCCACACGCCAGGCTAATTGTTGTTAGTACAGACGGGATTACAGGTGTGAGCCACGGCA  
 19361 CATGGTCTCCATCTCTGACCTCGTACAGGCTGGCTGCTCCCTAAAGTGCTGGGATTACAGGTGTGAGCCACGGCA  
 19441 CCCGGCCCAAATTCTTTATTGCTATTGCTGAGCACATAGGAAGAAAGATTATGGCAGGTAATG

rs2249960

19521 TTGAGAAGTAAAAATCTAAAACAATAAAAGGGTGTACCAATCTACATTTCAGTAAAGAAATCCTGAAAGTA  
 19601 ATTCTTTACATTCAATAGGCATTCTAGATAACACACTGAGGGATAATTAACTAGATACTAAGTAAAGGGTATG  
 19681 GAAGGCAGGTATAATCACTGCTCTAAGGAAATTGGAATTTCAGCCAAACTCCTGAAAGAATTAGACTTAAGATTTCTAGG  
 19761 GAAAAAAACACAAAGATGACTCTTAAAGGTTTACATTTCACATTTCACATTAACTGAACTGATCTAAGGATGCTAAAGCA  
 19841 GGGAAAAAAACAAACCTGAAACATTGTTGTTAAAGACTTTGTAAGACTTGAACCTTCTAAACTCAATATTGGCC  
 19921 GGTGCGGTGCTCATGCCGTAACTCCAGCATGCTGGAGCCAAGGCAGGGGATCAGGAGGTCAAGGAGTTCAAGA  
 20001 CCAGGCTGCCAACATGGTGAACCCCTGCTCTACTAAAAATACAAAAACTTTGCCAGGTGTTGAGTACACCTGTA  
 20081 TCCCGAGCTACTGGGAGGCTGAGGCAAGGAAACTGCTTGAACCTGGGAGGTTGCAAGGCTGAGGTTGACCA  
 20161 CTGCACTCCACCCCTGGCAACAGAGCAGACTCCGTCTTAAAAAAACACAAATAAAATCCTCAATATTACAA  
 20241 GGTTAGTACTTGGCTAGAGCATTAGTCTGAGGAGGAGGAGACAGAGTCTTGCTCTGTC  
 20321 ATCCAAGCTGGAGCACAGTGGCTTAATCATGGCTACTGCAAGCCTCAACTTCCCAGGCTCAAGCAATCTCTCAACCACA  
 20401 GCCTCTGAGTAAGTGGGACACAGGTGTAAGGACCACTATCCAGCTAATGTTTATTAACTTGTAGAGACAGAGTC  
 20481 TCACTATATTGGCAGGGTGGTCTCAAAACTCTGGATCAAGGATCTCTCCCTCTCCGCCCTCCCAAAGTACTAGGATT  
 20561 ACAGGTATGTCACCCAGCCCTCTGAGAAACTCTAAAAGTACTAATAATTAACTGGTGTACGTCCAGATTGAAAACAG  
 20641 TAAAATGTGGCTAACCTGCCCTGAATGCAAAACCACTCAAAAGGCCACTGTTTTTACATTATTATTAAATTGACAA  
 20721 ATAATATTGAGATATTCAGATAATATAATGTTATTATATACATATAATGTTAGTACAGTCACATCAGGGTACTAA  
 20801 GCATATCCATCATCTCAAGTTATTATCTGGGATCTGGCTCAAGGCTTCTCTCCGCCCTCCCAAAGTACTAGGATT  
 20881 ATATGTTACTGTTACTATAGGCACTCTGCCACACTGTTTTATAAAACATATACACAGCAGCTTAATAGAAACTAC  
 20961 AAGTTATTAAAGTATAAACAGTCATCAGAATAAACAAAGTAAATTAGGAAAAAAATGAAGAAAGCATTAAGCT  
 21041 TTAAGTAGAAAAGTCACCATCCAGAGCTCTTTAACTCATCTTGTACAGTCATCAGCAAGCCGAGG

Exon 18

21121 TAGTACATGGCATGCTGGTGGCTGAGGCTGTTAGCAGCCCGAAATTGTTAAGAGATCGCATATACTAGTGAAAGAGACATGCGTT

Exon 18

IDE\_17i.1

21201 CATTAAATTATAAATCTTTAAAAATCATTCAAAAGTCCAGTTATAATCAAATTCTCTATAAACTGTATTAC

**FIG. 6F**

**Heller Ehrman White & McAuliffe, LLP**

Sheet 58 of 113

**Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases**

**Serial No. To be assigned**      **Applicants:** Becker *et al.*  
**Date of Filing:** 6/18/03      **Attny Dkt No:** 37481-3308B

21281 TAGGATATTCCCTTCTTCCCCTTCTGAAGTTATAATTAAAGAATGGCCTTATTCCCTCCTCGATTTACATAAAAAG  
21361 TGCATGCTTTCTTTGTCAGCTACATTGCTTCAGCATCTGACATGGACTATAAGTGCCTTCACTATGGGATATCTTT  
21441 AGCTCCCTCAGAAAGTATTCCTAGTTTCAGGAACTCTTTAGGAACTCTTCACTGCTATAAACGCCATCCCCAA  
21521 GTCTCCATAAGCAACATAAAATAGGTAGGCCATATAAAATGGATCTTCTTATTGAAACTGTAGCTAGTTCTCT  
21601 AGTATACAAGGAAGGGTCACTGTTAGCTTCAGGAACTCTTCACTCCATATTCCTTCACTGGCCAACACGAAAT  
21681 GAATGTAAGTGGAAAGATAATGTCACCAACCAAATAGTGCTCTAACTGTGACAACGCTTGTGAGGTAAGCACCTCAGTCT  
21761 GCTGAATTGCGTGTCTCTGAACTAGAGGTTGGGATGGAACATTCAGGAGGCCCTGACAGCCACTAAGTGTCTCT  
21841 TGAATTTCAGAGCTGCACATCTGAAATTGCACTGAGGCTCTGGCACCCACAGAGAAGAGGCCAGGTGTCCACCAGACTCA  
21921 CTAGGATTCTTCTGGATGGAGTATAGGATTTCAGGAACTGCAATGAAAGCTGAGATGCAATGGCCACAGGGTTATGAATTCTCT  
22001 TTCCCTCTGCTCTTTTATATTAAAAAAACTTATGAAACTTTTATAGCAATTATGCAATGGCCACAGGGTTATGAATTCTCT  
22081 AGCAGGGTTCAAGAAAACCTACTGCTTCTTGATAATTCTAACTCTGCAATCTCAAGGGTAGCCATTCTCAAA

### Exon 17

IDE 16i.1

22161 TAATCTTCTTTAGTAAAATTGGCTGCTGTCATTGTAACCTTCACTGAAAGCTACAGAAAGAATTCAAGGTATTAAAAG

### Exon 17

22241 TCTAAAAATATCACAAAACAATTCCAATAAACGACTGTGATTTAAACATGTAGAAAATCCAAAACAGACATGTAAA  
22321 AAATGGAACAAATTCAATTAAATGTGTCTATAAATATAATAGTGTAAACACTTAGGAAGGATAACATTACATTTTTTCTT  
22401 TTTTTTTTGAGACAGACTTCGCTCTGGCCAGGCTGGACTGCACGGCAGACTTCAGTTACTGCAACCTCAGCG  
22481 TCCCAAGGTTCAGGACAATTCTCTGTCTCAGCCCTCCAGAGTAGCTGGGATTACACAGTCGCCCAACTACCCCTGGTTAATA  
22561 TTTTGTTATTTAGTAGAGATGGCGTTCACCATGTTAGTCAGGCTGGTCTGAACTCCTGACCTCAGGTATCCATCCG  
22641 CCTCGGCCTTCCAAAATGCTGGGATTACAGGCTGTAGGCCACCATGCCAACGCTTAACCACATTTTTTAAAAATATTT  
22721 ATTTATTCGAGACAGGGTCTGGTAGGGTACCCAGGCTAGACTCAAAACTCTGTAGCTCAAGTGAACTCTCGCTCAGTC  
22801 TCCCAAGTAGCTGGAACTATACTGTGTAGGCCACAGTCCGTGGCCATTAAACATCTATAACCCAAAAGCATATAATTCTACT  
22881 TTTCGAAACAAAACCAACAGTAAGTAAACTCACCTGACACCGAAGTATGGTCCATATACTATATCATCAAAACTCAA  
22961 TTCTTTTTTATAAAAATTAAATGTGAGAATGTGCTAAGTTTTCTTCAGGAAATATCTAATGAAAGGCCAGACTTAAGGT  
23041 TTCTACAGGTGAGCTAACAGAATTTAACAGGGAATAGTGGCACCTGGTAGCTTACAGTCGCCCCAGCTTCTGAAAGCTGAG  
23121 ATGAAAGGCTGTCTTGGCCAAAGAGTTAAAGGCCAACATCTGGGCAACATAGTTAGCTCTGACCTCAGGTATCCACCT  
23201 GCCTCGGCCCTCCAAAGTCTGGGATTACAGGCATGAGCCACCGTGCCAGGAGATCCACAAATTCTAACACACTTGCTTA  
23281 TTGTTGAAAGTCTGTGTTGGTCTCCAAAAGCTAAATGCCAAAACAAATGTGTAAGGAGATACACTGTATCTATCATCAGGA  
23361 CTCCTGGCTTACGACATTTTTTTTTCTTGAGACAGGGCTGGCTTGCCACCCAGGCTGGAGTCAGTGTACAACTTCG  
23441 GCTGACTGCAATTCTGCTCCGAGCTGCAAGGCTATCCACCTGGGATCTCAGGCTCTGGAGTAGCTGGTACAGGTACACAC  
23521 CACCATGTCGGCTAATTTTTGTTAGGGTCTGGCATGTTGCCCAGGGCTGGGTCTCGAACCTCC  
23601 TGAGCTCAAAGCAATCTGCCCTGCCTGGCTTCCAAAAGTGTGGGATTACACGGCTGAGGCCACCGTCCCCAGCCAACCTTA  
23681 GCAAAATTCTACTTTCTCTAAATGCCCTAACATTGTTGAAAGTGGGAATGGGAATTTCTATCATGATATTTCACATG  
23761 GTGAGCAGCAAGGCTAGGGGATATCAGTCAGCTAGAATATCATGAAAGTCTACGGCTTGACAGGATAGTGGCA  
23841 AACCTCAGCAGGAGGGAGGCCACTGGCACGCCAACATCATTTTCTACTGTAGGAACACTGACAATTAGCA  
23921 GAAAACCCATTGTCATAAATAAAATTATGTGTTTGTAGCTAAATATGCTACTAAAATCAACAGAAAAAGGAGAAA  
24001 CAGATGATTACTTTCTATTGGAGCTAATTGGTGTCTGAGCTTCACACTTCTGTGGACTCTGGGAATGGTTAGATTA  
24081 ATAACATCTTCTATACATTTAAACAAAAGCTTACAGAGAATTATTATGTGAAAGAAAAAGTACTCTGGGAAATAAAATA  
24161 AAATTAAAATTCTACAACTTTGTGTAAGAATTAAACACAGGTACCCAAAATGCTTGTGTTTCTATTTTACTA  
24241 AAATATGCAATATATTTCAGAAAAGTGAAGATGAATGTGTCATAAAAGGATGTTAACCTGGAATTGAGATATAAG  
24321 CAAGCTTGGAAACACATTCACAGGAGATCTACTTATTCTCTAGATGCTTAAATATGCTTATTTAAACACACA  
24401 TAAACTAGGTAAATGGTGTCTACAAAATAAGTTTTAAATAAAATGTCTGAGCTATCTGAACATAGAAACATTCTACT  
24481 ACTGCTGCAGAAAATAAAGGGTGCCTATTCTAACTAAAATTCATCACCACAAACTATGGATATCTCTACTTACGG  
24561 ATGTAAATATACTCAATTATAGAAAAGAACAAATATGCTTCTCAGGATTAATATGTTAAACATCTCAGGCCAGAAGGAGCATG  
24641 CAACAAACAGTAGCACACATACATGTCACAGTCACCTAAACATTAAATCATCTTACTGTGAACACTAACACTAAT  
24721 TTGACTCTTGTATCATCAAAAGATGCAAGGAAAAAAACCTTAAACATGCTTCTCTGTTAAATGCGAACTTATGTTT  
24801 CCCAAGCTCAACATAATGCTTAAACGGGTGGTGCCTTCTTGGTTTCTATTTACTTACAACTATTGCTTCAATT  
24881 TGATGCAATGCCATAGCTAACCTGAGAGGCGTGTGCTATGTATACTCTTTAAATCATCTTCAATTACCTGATAAA  
24961 ACAGCTATGTCATGTTGCAATGGAGGAGATCACCTAAATATGCGACTAACAAAAGAAAACAAAAGGAATGCTTGTGA  
25041 TACCTCAAGCAGTGGCATGTTAAGAGAAAATCATGCGAACAGTAGTGGGATATGCGCTCATGATCTGGATTCTAGGG  
25121 AAATAGTATGCAACCTTACGGTTTACAAAACCAAGACTTCATTTCTTGTGCAAGGACATTCAATACAGA  
25201 ATGGGTAAAGAGCTAAACCTAAATCAGGTCAATTGGTTGAGTAGGAAACACTGACATTCTGATGAAACACGGTTAA  
25281 AAAAGGAAATCAACGAAATTGCAATATGAAATGCTATGTGAGTGTGGAAACACTTAGAATAAAGGACTAACTTTAA  
25361 AATGAGAAAATATGATTAGGCCATAAAGATTAAAAAAAGAAAATTAAACACCCCTCAATCAAAATGCTTCTCATC  
25441 AAACTCAATATAAAAAAATGTTGATGAGTGGAAAGGCTTAAGGCGTGGTAGCTACATACATCCCATAGATGTTGAG

Exon 16

25521 GATCATAGCTAACGCCCTGCTAGCTCTGCTGCATATGCA TACTCCTTGAGTGAGTC TTGAGGAGGCTCAAGGTACAAATAG

FIG. 6G

Heller Ehrman White & McAuliffe, LLP

Sheet 59 of 113

Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

Exon 16

25601 GCCATGTTACAGTGCAGGGGTCCACATAAGCAAATGGGCTGGAAAGAAAATGTTGACACTAAAATAGCTGATTTATTAC

Exon 16

25681 TTCTCAATGTGATATGCCCTTTGAGATGGATCAAGAATATTGAACACCGGTTAATATGATTCCTGAGGATATGGTTGAA  
25761 TTCTGAGGCTATTCTTGTAGGAAAAAAACAGATGTCGAAAGAACGCTGAAGTGTGTGAGTGTGTGTTG  
25841 GTGTGTGCGATGCGTGTGTGCGTGCCTGACTGGTAGTGAAGAAGGAGAAGGAACTGCCTACCCACATGGTGTG  
25921 CAGAACTGACAAGTAGAAATGCAGGGTATGTGAGCAGTGGGAAACGGCCAAATGCATGGTGTGCTTAGGCTAATGGG  
26001 AGGAGCAGGGCAGAGAACAGATAACAGCATTTGCATGTCTCCCTCTCTCCAATAAAGTCACATCCTTGGTGGACAG  
26081 GAATAAAGGACTGGAAATGTGCTGTGTAATTACATGAACTTAGAAAGAATGGAGACCTGTGAAATGTTAGCTTATCC  
26161 CTGAGTTTCCCACAAACAGTAGAAAGACTGTGACTAAATAATTGATAATTCTATCATATAACAGCAGGCAA  
26241 ACTAGGGAAAAATAAAATAGAAAATTTTAATGAGAAAAGAACAAAGAACAGAAAGAATTATAGAGTACAAGAACTAAACC  
26321 ACCACAGTGATCAACTAAACTCATTCCCAGATAAGAACATAATTCTCAGGCCCCCTGACTTCGGCAGCAGAG  
26401 CTGGGATTCAATGCAAGTTAAAGTACCTGCTCTTGTACATACACCTGCTTACCTTATCAGAAGAAAAGTAAAGG  
26481 TCTCACTTCAAAATATGTTATATGCTACTACAGTGCAGGCTCTCTCTGACTGAAATAAAGAGTGA  
26561 CAATCAGGCAAATTCCTGACCTCAGAGTTGATAATCTAGCTACAGGGACACATAATAAATTAATTGACATA  
26641 TTAGTTGGTGCAGTGCTATGGGTAAGGGAAATAGGGATGATGGGTGATGGCAGCAGGGAAAG  
26721 AAAGACTGCTTTACATAAGATGGCAGTCAGGCCACTTCAACATCTGGACATCTGGACTCACGACCTGAAGGAGGCA  
26801 AGGGAGTGGCCCTGGGGATATCTAAGGGTGGAGTGGAGAACTTCCAGGCTGAAGAATAGCTACTGCTAAAGGCC  
26881 AGGCAGGTGCGCTTGGCTTGGCTACTGAGGTTGATAATCTAGCTACAGGGACACATAATAAATTTAATTGACATA  
26961 CTGATAACAAAGTCAACATTGGTTTTAAAGTTGAGTCAAGGTCTACTGTGTTGTCAGGCTGGTCTGAACCT  
27041 GGCTCAAGCAGTCTCTGCCTGGCTTCCAAATGGTGGAGTACAGCTGAGCTATCGCACCCAGCAGGCAA  
27121 CAATTATCAGCAGGAAATGGGAAATAGGGATGATGGGTGATGGCAGCAGGGAAAG  
27201 TTCTACAGCTATCAAATTCTCAACTCGGAAATCTGAAATTTCTGCAATTAAATTGAGTATGATAACAT  
27281 GATGACAGATTCCCTTTCGCAATAGCAGCTCAAAACTTAAGGCAACATTCAACAAACAAATCATCAAACAA  
27361 AAGAGAGGATATCACAGAGTGGCCACAGGCAACTATGCACCTTCTCAGGTTGAGGAGTGA  
27441 GTTTGGCTCTCAAAGGACTATGGCTCAGGCTCAGGAAATAATCCAAAGGACTGCTTAAATGCTACATCCAGCCTGG  
27521 AAGGGGGCATAGCCTCTAGGCTCAGGCTCAGGAGGATCACTTGAGGCGGAGAT  
27601 AGTAACACTGCCTGGGTGACAGAGGAAGACTCTGCTCTCTAAAAAGAGAACACAAAAACAGCTGTATCCA  
27681 CAGCAGCTGCTGTGAGTGGAGAACCCCTAAACTAACATTAAAGAGAACATAGGATTCAACTGCCATACCTAAATT  
27761 CTGGTCTATGTTAATTAAACAGCTTATGTTAACCAGATACTATGCTTAAATGGATCACAGGGTTTAA  
27841 AACCATAGCTAACTACACATAATATAATCTTCTGAAAGGAGTAAACACACATGAAAATTCA  
27921 TTTAAATGTACAGAACAGAACACTCGTTACCTCTAGGAAGACAGACCAGAGGGAGGATTGTTGAGGAGACAT  
28001 TTTCAGTTCTAGGAATGCGCTAGGCAAGTAAAGAACAAAATGTAATGGTCTCTCAACGGCTAGTCTAAAGGAA  
28081 TTTCATCATAGGCCAAATGGAAAATGGTGCAGAGCTGCTTAGGTTAAAATATCCTCAAAATATC  
28161 ATAAAAAGCAGCTTCTAATGCCCTTAAACATAATAGGCCAACACTGACAGGCCATCTTGGTGTAAACAAATAAAAAA  
28241 TCTCTGCACAGTCTAGATAATCTGTGAATCTCATGCAATAAAACCAAAATATTATAATC  
28321 TGTTGATGGAAAATCAAATTCTCTTCCCTCTTCCAAAGCATTTAACCTTATCTACCTCTCAATTTCATGCAAGGCAAC  
28401 TGAAATAAAATTAAAGGAGCTGATTCATATTGAACTATTGAAACAAATAACAGGCTAGTCTTACAA  
28481 CCACTGAATTAGAAATAAAATTATGAACTTAAACTCACAAGGTTAAAGCAGGTTAAACACACAAATA  
28561 AGTAAAGGAAACAAAGATGAATTGAGGTGCACTGAGAAATTACTGCAATAGCATTATTCTATAATTACTAAACATC  
28641 TTCTCCCTTTTATTAGTAATGTTAAGTAATCAAGCCAGAAATAGGAGAAGCAGTATCTAAGGGTCCAGACAAAGGAC  
28721 AAAAACAGACTCACCATCTTACTAAGTACACTACCTCTCTCTAGACAAGTTCAGGAAATCAAAGGCAAAAGCAATAAA  
28801 AACACCCAAAATTATTCTCTTCATGAGCTTCTCTGGTAAATCTACGGCCTCTCAGAACTC  
28881 AAGGCTAAGAAGGTCATCTAACAAACACTGGTTTAAACAGCAACAGCTCCTTTTCTTTCTTTTT  
28961 AAAAGAATTAACACACTGGCTTAAACAGCAACAGCTCCTCTAGACAAGGAGGTTTCTCAGCCT  
29041 TGAGCAGAGCTGCTGCTGTGCCCCAGGCTGGAGTGCAGCGTCCAGCTGACTGCATCTCTGCTCAGCCT  
29121 CCTGAGTAGCTGGACTACAGGCCACCCACCATGGCGCTAATTGTTAGTAGAGACGGGTTTACCCG  
29201 TTGAGGCCAGGATGGTCTCAGCTCTGACCTCATGATCCGCCGCTCAGCCTCCAAAGTGTGAGGATACAGGCGT

IDE15i.1

29281 AGCCACCGTCCCCGGCCACCTCTCCTTTCTTACTTTTATTATTTTTCAGCTCTCCTTTCTAGGTGAAA  
29361 TAACTCTAATTCTTTATTCTAGACATGGATGTTAAGAAGAACAGACAACCTCTGGAAACGTAATTGTTGATTTTA  
29441 TAAGCTTATAAGCTAGATTCACTTACACCTGAAAAATTCAAAGTTGAGACAGAACGCTTCGGCAAAAAAAACTTATCA

Exon 15

Exon 14

29521 TCTTGTGTTGAACCAAAGTTGCTCATAGCTGTATCTGTGATGGAGAACAAATTGGTTAGGGAAATAGAGGCGCATTCA

Exon 14

29601 GCAAAATGTCATCAAACACTCTTCAAGAGGAGGGACAGAACAGCAATTAGTTAGAGTTGTTCTGGAGTTGCTGTC  
29681 CCATGGGCCTGAAAGCATACTCAAGAGTCAGCAGGTTAGGAAGCTGGAGAACAAAGACTGCAAGACTCTGTAGCAGAGTGA  
29761 ATCTGCCCTCTATTCCCTGTATTAGGGAGTGGGGTACAGTGAAGAACAGACATGAGAACAGCAATTACCAACT

FIG. 6H

**Heller Ehrman White & McAuliffe, LLP**  
 Sheet 60 of 113  
**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**  
**Serial No. To be assigned Applicants: Becker *et al.***  
**Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B**

29841 GTCTGTCTTCGTCCTTCTGGACACTAGGAGGAAGGCAGAGGCAGAAGTCCCTGCAAGCGATGGCAGCCAGCTTCAG  
 29921 GGTGGCCCACAACAACTCTTGCTGAGATTCACAGCCTTGGCTGCCCTCCCCACACTACACCAGGGTTGGTCTGC

rs2421940

30001 CTTACTAACAAATATGACAGAATTAACTGAGACTGCATATAAAAGACACCGCGGCTTGCATCCTGATC  
 30081 ACTCACTTCCCTCTGGATCACTCACTTGGGGAAAGCTGCTGCCATGTCAGCAACTCTACAGAGAGTCATGTC  
 30161 TGAAAATTAAGGCTGGCCAACAACCACATAACTGAACTTGAAGAGAAATTCTCAGCCCTGGCTGAACCTTCAGATGAC  
 30241 TGAAACCTTGGCCAACAAGCTTGAAGACTATAACCTACAGACAAGCCCTGAGCAGAAACTACCAACTAAGTCAGTGGATT  
 30321 CCTGACCCCTCAGAAACTGTGTGAGGGCAGGCGCGTGGCTTCACTCTATAATCCAGCACTTGGGATGCCAGG  
 30401 TGGCTGGATCATGAGGCCGGAGTCTGGACCATCTGGCCAATCTGTAACCCGGTCTCACTAATCATAACAAAT  
 30481 GAGCAGGGTGTGGTGGCTCGTGCCTGTAGTCCAGCTACTCAGGAGACTGAGGCAGGAGAAATAGTTGAACCAGGACTCG  
 30561 GGAGGAGAGCTTGAGCTGGAGACATGCCACTGCACCTGGCCACAGACAGACTCCATCTCAAAAAAA  
 30641 CAAAACAAACAAAGAAACTGTGTGAGATACGGTGAGCAGCTGGCCACACCTGTAATCCAGCACTTGGGAGGAGGAAAGG  
 30721 CAGGCAGATGACTTGAGGCCAGGAGTTGGAGATCAGCCTGGCCAAACAGCAAACCCCTGTCCTATTAAAAATACAAAAA  
 30801 ATTAGTTGGCAGTGTGGCACATGCCATAATACTCCAGTTACTTAGGAGGTGAGGAGATAGCTGAACCTGGGAG  
 30881 GCAGAGGTTGCACTGAGCTGAGATTCCACCATGCACTCCAGCTAGGCAACGGAGAGAGACTCTGTCATAAAAAAA  
 30961 AGAAAAGAGAAAAAAAGAAACTGTGTGAGAAACCCAGGCTGATGGTCTATGCCATAATCCAGAAATTGGAAGG  
 31041 TGAGGCAGGATCGCTTGAGCCTAGGACTTTCAGATCGGCTGGCAACATAGTGAGATCCACCTCTACAAAAAATTGAG  
 31121 ACAATTAGCTGGGCGTGGTGGTGGTGTAGTCCTACAGCAACAGGGCTGAGGTGGTGGATCAGTTAGCCAG  
 31201 GAGGCCAAGCTACAGTGAGCCACTGCACACTTCACCCAGCTGGCAATGGAATGCCAGTCTTTAAAAAAAGG  
 31281 AAAAAGAAACTGTGTGAGATAATAATTGTGTGGTTAGTTCTCTTCTTTTTTTTTTTTTTTTTTT  
 31361 TTGTGACAGCTTCGCTCTGTGACCTGGAGCTGGAGTGAATGCCATCTGGCTCACCACAACTCCACCTCTGG  
 31441 GTTCAAGCGATTCTCTGCCTCAGCCCTGAGTAGCTGGATAAGGCACGCCACACGCCAGCTAATTTTTTTAG  
 31521 TAGAGACGGGCTTCACCATTGGTCAAGGCTGGTCTCGAACACTCTGACTCATGTCCTCGCCTCAGCCTCCAAAG  
 31601 TGCTGGATTACAGCGTGAAGCCACTGCACTGGCATCTGGCTAACACTTAAAGTGTGGTTTAAGCTGCTAAATTGGAATAAT  
 31681 TTAATATGCAACCATGGATAACCAACATGGCAAGGATGAAACAAATAAGCTACTTATCTGCTCCACTTCACATG  
 31761 CTATGCTAAGAATGGTTAGTCACTGAAACTACCTGAAACTCTGGGAAGAGATATAATGGTTAATGTTCTGTTA  
 31841 GTTTGCTCTGGAAAGCCTATTAAACAAACAGCAAAGTCGATATGGTAGCTCACACCTATAATCCAGCTACITGAG  
 31921 GAGGCTGAAGGGGGAGGATCACTTGAGGGCAGGAGTCTAGGCTGAGGCTGAGCCACATGCAAGATCCCACATCTCACAAA  
 32001 AAATAAAACAAACTAGCTGGGTGTGCTGTGTAATCCAGCTACTTAGGAGGCTGAGGCCAGAAGATGGTTGA  
 32081 ACCCAGGAGTTGAGGCTGCACTGAGCTATGATCCCACCACTCCACTCCAGCTGGCAACAGAGAGACCCCTGTCCTCAT  
 32161 AAATAAATAAAATAAGATAAGATAACATAACAAAAACAGCTGAGGTAATGAACTTTCTCTTGTCTCATA  
 32241 AGCTAATATAAAACTCTTTAAAATGTCATTGTTAAAGAAAACCGCTCCGGCTGGCTCATGCTCTATAATCCAGCA  
 32321 CTTTGGGAGGGCGAGGCGAGGTGGCTCCCTGGAGGTCAAGAGCTGGCCAGGCCCTGGCTAACATGGTGAACCCCTGTC  
 32401 TACTAAAAATACAAAAATCAGCTGGATCTGGTGGGGTGCTGTAATCCAGCTACTGGGAGGCTAAGGCAGGAGAA  
 32481 TCACCTGTAATTGGAGGCCAGTTACAGTGAGCCAGATCATGCCATTATACTCCAGCTGGCAACAAGAACAGAC  
 32561 TCTGTCCTAAAAAAAGAAAATAAGAAAATGGTTGCTCATTAATAATCTAGTTGCTTAAGACAAATTGAG  
 32641 TTCTAAACACTAATGTTATCTGACTCATCTAAATTCTTCAATGTCATCTGCTCATGCAAGAAGATAAAAAGA  
 32721 ACATGTTGCTGCTGTGCTCACAGTCAGTTAGAAACAGTTAGAAGGGAGAAGAAATACGTTAGAAGGGAGAAG  
 32801 AATACGTTAGAAGGGAGAATGTCGCTTAATAATTGATACAAATTGTTACATACTTACTCAAGTCTGAAATAATGAG  
 32881 ATGAAAAGGACATTCTGAAAAAGATGGGAGGAAACCTACTTCACAGCCCTTGGCACTAGTTATCATTCCATTAA  
 32961 TTTCAGAGTACTGTCATAATGAAATGTTTAAGGGCAACAGCTGGCTCTGGACTTGCTCTTCA  
 33041 GGCTTACAGATCCTTCTTATCTTAAATGTCATGCAACATAACACTTCTTCTTCTGCTCTGGCTCTGGAGACATG  
 33121 GAAAAGAGGAACAGACCTTCCACAGACTTGTTGAGCTACAGCTCAGACTTACTTTTCTCTACAAAGAAAGTGA  
 33201 TAGATTCTACACTGTTAGTTCTGCTTAAATATTGTTAACCTCTAAATTTTTGCTAGTTATTCTCTGCT  
 33281 AGCTTTTGTGTCACCTATTAGGATGTCAGGCTCCCCAAATCAACATAGTACCAAATGTAAGAAATCATTACCCAGTCCC  
 33361 CCATGTTAGGTGTCACCTATTAAACTGTCACACAGCATTACCTTAATAAGAGCAGGGTATGGTCTGC

Exon 13

IDE\_13e.1

33441 CTCTTTCTAACGGAAAATCTCAAAATTCTGAGGAATAATTCACTTGTAGGAAGTTAAATTCCCATTCAGGT

Exon 13

33521 CAGCATTTGCCATTCTGGATGAATAATGAAACACACAAATGCACTGAGTCTGATTTAAGAGTTAAATAGTATCT

Exon 13

33601 CTGCTCAATATAGGCCAAATATTAAGTCACAAATGTCACACAGCATTGTTCCATCATATAAAAGAGGTACTACC

IDE\_12i.1

33681 AAATCTATCGATGGGTTTCTGAAACCTGAGTTAGTCTTCTACTACTAGCAAAGATTTGCACTCATATCTACTCT

**FIG. 61**

**Heller Ehrman White & McAuliffe, LLP**  
**Sheet 61 of 113**  
**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**  
**Serial No. To be assigned Applicants: Becker et al.**  
**Date of Filing: 6/18/03 Atty Dkt No. 37481-3308B**

33761 TCCCTCACCACATCTCCAAAATGACCAGCTGAGGAACAATTGAGACTATGGAAACACAGAAAAGCTGACTCGTCCATATGCA  
 33841 GATCATGTTTATTCCTAGCTCTTTAAAGAATGGAGAATAATCTGCTCAGGAATATAATCCACACTGCTAGACAATAGGT  
 33921 CATTTATATAAGAGCCATACTTTCACCTATACTAAGTTATATCCATGAATGGCCTGAAGGCCAGGCTAAAGGAGGTGCT  
 34001 TTCACCTTAGTACTCTCTCTTTTCTTCCTGAGACAGTCTGCTCTGCCGCCAGGCTGGAGTGCAGTGGCATGAT  
 34081 CTCAACTCACTGCAACCTCCACCTCTGCTCAAGTATTCTCTGCTCCAGCCTCCAAAGTAGCTGGACTACAGCTG  
 34161 TGTGCCAACACCCGACTATTTCTATTTAGTAGAGATGGGTTCTAGTGTGCCAGGCTGGTCTTGAACTCCT  
 34241 GCCCTCAACTGATCCCACCTCACCTCCAAAGTGTGAGGTTACAGGTGTGAGGCCACCATGCCGCCACTCACTCA  
 34321 GTACTCTTTCTTTCTTCAGACAGAACTCACTCTGTTGCCAGGCTGGAATGCCAGCAGCGTGTACTCCACTCACTG  
 34401 CATCCTCTACCTCCCAGGTTCAACCGATTCTGTGCCCTCAGCTCTGAGTAGCTGGATTACAGGCCGTACCCACCA  
 34481 CTCAGCTTAATTCTGTATTTATAGAGATGGGTTCTACTGTATTGCCACCTGCTCAAACACTCCCCTCAATCTGCC  
 34561 CACCTCAGCTCTAAAGTGTAGATTACAGACATCAGGCCAACAGCTGGCTTCTAGTACTCTTAAGAACTGGCCA  
 34641 CACCTCTCCAGATGATCATGTAACTTTAAGTGAACCACTGACTTCAGCACAAGGTTAGAACAAAGTTAGGCCAGG  
 34721 CGCGGTGGCTACGCCCTGTAATCCACCTTGGAGGCAAGATGTGAGCAGTCAGGAGTTCGAGACCACT  
 34801 CTGGCACACATTGTAAGGAACTCATATTAAAAAAATACAAAAAAATTAGCCGGTATGGTGTGACCTGTAATCTCA  
 34881 GCTACTTGGAGGCTGAGGCCAGGAAATCATGTGAACCTGGAAGGAGAGTTCTGAGTGCAGTGCAGGCCAGATGCC  
 34961 CTCCAGCCAGGCAACAGTACAGACTCTGTCTAAAAAAAAAAAAAGAAAAACAAACTTGAGATTAGGTTGCCATTCA  
 35041 CACAACCTGTAGTAGACTGGATCTGTTCTGTCTAGTTCCAAAGCTAAGTGGACAGATCACAGGCCACTGATTGTT  
 35121 GAACCTAAATTATAAGCTTTCTATTAAAAAAAGAAAAAAAGCAACTGCCAGGAGTAAAAAGCAACC  
 35201 AGCCCTGGACACAGAGCAAGGCCCTGCTATTAAAAAAACCAATTGCAATAATTCTGGATTCTGGATTCACTGTA  
 35281 ATTGGATCTCTAGCTGGTGTGGCACACGCTTGAGATTCTAGGTTCTCAGAACAGCTGAATACTAGGGACTAGGAA  
 35361 GACGTTGGCCATATTCTTAAGTGGTACTTAGGTTCTTAAAGGAACTCCAGCCGGTGTGCTCACAGCTGTAATCCA  
 35441 AATTCTACTACTGAGTCCAGGATAGATGTGTTCTTAAAGGAACTCCAGCCGGTGTGCTCACAGCTGTAATCCA  
 35521 GCACCTTGGAGGCTGAGGCCAGGCAACAGGCTACAAGGCTAACAGGATCAAGGACATCCTGCCACATCGTGA  
 35601 CTACTAAAAAAACAAAAATTAGCTGCCGTGGCATGCCCTAAGCTCCAGGCTGAGCTGGAGTCCATCTCA  
 35681 GTTGCAGTGAAGCAAGATTAGCCACTGTACTCCAGCATGGTACACAGGAGATTCCATCTCAAAAAAAATAAA  
 35761 TTCCCAATTCAAGGGCAGGTTGGTTATGTCAGACTGCTAACAGGGGATTCTTCTTCTTCTTCTTCTGAC  
 35841 CAGCACTAATTCACTGAAAGATCAGCTTCTCTCAGGTTAGAGAGATGGGACATTTTACACACTGGAGGGCT  
 35921 CTTCTGATCATGATATGTCAGAGATCTGTGAAGTACAGCTGATGATCTCTTCTTCTTCTTCTGAT  
 36001 GTCATTACACAGGTACATTAAAATGCTCATTACTGAGTTAACAGTACTAGCTGAGTAAAGTTCTGGCTT  
 36081 TTCCCAGGAATAAGGGCAGCAGTCTCAAGGCACATAGCCAATGAGAACAAAAGAACAAAGAAAAAGTACTAGATA  
 36161 AGTAGGTAACATTCAAGCAAAATCTGACTACTGATGAAATGGGACAAAATTTGTTAACACATACCTTTCTGAA  
 36241 CATAATTCTCTATGTTGACAAAAAAAGACGGTGTAACTACAGGGCATAAAACATGAGCCTCTGAAAGTGT  
 36321 ATGAATCTAGAGCCTGCTCTGCCCTGTTCACAGCAAGACTGTGAGCTTTGGAGCCCTTGATTTGTTCTCATG  
 36401 CCTCCTACTTCATGCTCTGCCCTCTGGTGTGCCATGTAACCTTGACTCTGCACTTTAGTTACATTGATGGCAG  
 36481 GCACAACCCCTGGTTGATGACACATGAGAACAGTGGCAGACTGATCATGCTCTTCTGAAAGGCTAAACTCCAGCTC  
 36561 CCTATCTACTGTTGATTTCTCTAGATGGTACAGATAACACTAGGTCTAGCTTCTCCACACTCTGGGCCCT  
 36641 GTGGATCTAGGGAGCAATGTTCTGTGATTCCCTACATGTCAAGCTTATTGATGACTTAACCCCTACCTGATGACT

Exon 12

36721 TCATCCGGTATAGCTCTGTTGTACTGGTTCCATACCACTCTCTGTGCGATCAGTTTCCCTCAAAAGATTTAGA

Exon 12

36801 AACTATGGCAACCTAGAGATAGAAAAACAAACAAAAACCCCTGTAAACTCATACTGTATATGAATTAAAGAAC

Exon 12

36881 TGACTCAGGACAATATAAACATATCCAAGAATGTGCTGGCCCTTAAACCCAGCAAACCTGTAAGGCTTAGTCCAA

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36961 ACAAGCAATACATGAATAGAGGTTCTGATCATAGTCCCTGTTACCTTTAGTTACAGTCATTATTTAGTATGAAA  
 37041 ACTGCTCCAGGAGAGATCTCTACTGCTACTGACTAAATTAAAAGAAGAGACTAGGGAAAAAAATGTAAC  
 37121 AAGGTCAGTAAAAAAACACTCAGTTAAAAAAACAGTCTAAAAAAAGAAGATGGGATGAGTTGCTTATGCCIGAA  
 37201 ATCCCCAGCACATTAGGAGGCTGAGGCCAGGATGCTCACTTGAGCCAGGAGTCAAGCAACTCTGGGAAAATG  
 37281 CCCGTCTACAAAAAAATTGTAATAATTAAACAGGTGGGGTGGCACCGAGTATAGTTCCAGCTACTTGAAA  
 37361 TGGGAGGATTGCTTGAGGCCAGGAGTTGAGGCTGAGTAGGATGAAATCACACCACTGCACCTAGCATGGG  
 37441 TCAAAACTTGTCTCTTTAAAAAAACAAAAGGAAAAGGAAAAGTACTCCTCTCTAGGAGTATCTCAGGTG  
 37521 ATTAAACAGGAATGACTAATAAAACCTCTGGCTCATGGAGATTAAAAACGTCAGACACATACCCAAAGAA  
 37601 TTATGCTGCTACATTGTGCTCTATGTTTTCCCTGCCAGAGACTAGCATCAAATATGCTACTACAA  
 37681 GCCTTCTGACTAGGGAGAAGGACAAGACCAAAAGTCTACACTGTAACCTCTGCCCTCCGGTTAAC  
 37761 TCTCTGCTCAGCCTCCAAAGTAGCTGGGATTACAGGCCACCCGCCACCCCTGGCTAAATTGTTGTT  
 37841 TTTTGAGTTGGAGTTGCTCTGGCAGGCTGGAGTGCATGCGATCTGGCTACTGCAACCTCTGCC  
 37921 TGGGTTCAAGCAATTCTCCGGCCTCAGCCTCCAAAGTAGCTGGGATTACAGGTGCCCTACCA  
 38001 GTATTGTTAGTAGAGACAGGGTTTACCATGTTGGCCAGGCTGGTGAACCTCTGACGCTCAGGTGATCC  
 GGCTGCC

**FIG. 6J**

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

38081 AGCCTCCCAAAGTGTGGGATTACAGGTGTCAAGCCACTGTGCCAGCCTAAAGCTTTTGATGCGACAGTAGAAACA  
38161 GCCCAGAAGAGAACAGTCAGATGGAAAAAGTGTCAAGGATGGCATGGTCACTCATGCCGTAACTCCAGCACTTGGGA  
38241 GGCAAGGCAGGAAGATCACGAGGTCAAGAGATCGAGATCACCTGCCAACATGGTAAATCCCGTCTACTAAAAAT  
38321 AAAAAAAATAGCCCCGTGTGGCGGGTGCCTATAGTACCGACTCTGGGAGGTGAGGAGAACAGAGCAACTGTCTCAA  
38401 CGGAAGGCGGAGCTGAGCAGTGAGCCAGACTGCACACTACCTCCAGCCTGGAGACAGAGCAAGACTGTCTCAA  
38481 AAAAAAAAGAAAAGAAAAGTGTCAAGGAGGAGAACAGTAAGTGTCAAAGATAAGTGAAACAAAAATGA  
38561 CAAGACTAGAGGACAAAAGAAGTTCTGAACAAGTGGAACTCTAACGCCATCCCTGTGTAGCACTATCAGGGACACTCCG  
38641 CTCTACTGCCCTTTAATCATTGAAGTGGAACTCACTACACCCCTCACAGCTGGACTCAACCACAGGCTGGGACCAATCCTA  
38721 TTTTGAATCTGTGGCTCAAGGAATTCTAGCCAATTAGTGTGGCAACTTGTGTAAAGTCAGTCTGCTATTGGTCCA  
38801 CTTCTCCCTTAAGTCCAATTCCAATTAAATTAGTGTCCAATTICAATAATATCTGTCTCTGTTCTCACCT  
38881 ACCCCCAGAGGTTTGTAGCTCTGAATCTGTGTTCCAAATACCTGCCCTTGTGAACCTCCCAACTTCAACCG  
38961 GATGATACTCATTCAATTGAGAATCCCAATCTCTGTGTTCCAAATACCTGCCCTTGTGAACCTCCCAACTTCAACCG  
39041 AGTAGTGTCAACTGTCTATTTTATCTAGAACAAAATACCTACCTGGCTGACTGGCACTTGGTCTTGTCTATC  
39121 TGCTTCTCGGTAGATATCTAACAGAACATGACTCACCTGTCAGTAGCAGGACTAACTCTCCAGCTGTAGGTGTCCTG  
39201 ATCTGGCTATCTGTCATAACCAACTACCAACTCTAGAAAACATGCTAAATAAGAAAATACGTCTCAGAGAAAAGATA  
39281 GGAATCAGAGGATTGACAGATAAAAGAGTTCTAGTGTGAGGTTACACAAATCATATAGCTATAGCTATGAGGTTAC  
39361 CGTTGAGGTGATCTGTAGAGGTTACACAAATCATATAGCTATAGCTATGAGGTTACACAAATCATCTTAAAGGGCATTC  
39441 ATACATGATAGGCCATTGAGACTCACGGCTGAGGAATCTGGCTTCCACATTCTGTGATTTCTCAGAAAATGAATGGAT  
39521 TGATTCTCAAGGAGACTCTAAAAAAATATACTAAGTAGAACATCTGGCAGATGGTCTTCCCATCTACTCTTCCATGAAA  
39601 CGCTTGATTTCTTTTTTTTTAGAGACAGGGTCTCACTCTGACAACCAAGCTGGAGTGGAGTGGACTTGCCTCT  
39681 GAAAACAAGAAAACCTTAAACTCAGTTCTGAGAGAGAAAAGTAAACAGCTGCCAACGAGCTCTGGAAGATGACTATC  
39761 TGACACAGAAAGCAGACACTCAGGCTGTGCACTATGCTCAGGTTAAAAAAAAGGAGGGAAAAGGAGGAGACTCAT  
39841 CAAGTACAGTCTTAGGGATTGGTAGCTATACCAAAACTGAGGTGATGGTAAACATTGAAATGTTATTATAACG  
39921 AACAGACAAGCACAGTCTCAGACTAGGCACAGATCAAATACCAAGACTAACAAAAGAGATACTTGCAGACCAAG  
40001 TTAGTATATCATTAGAATTCCAGATTGAATATAACATGAAAGGGTATGTATGAGGTAAATAATAAGACAGGAAAG  
40081 AAGTAACTGGTACAGACAGAGTATACACATCAAACCATATAGATACCTATGAAACAGACTGTGAAAGTACAGGAAAG  
40161 GCACCTGAAATTAGGAGAAAAGGTCAACAAATTAAGTGAAGTACAGACACCTATAGTACACAAACCCAGACAGTTGAGAAA  
40241 ACTAGTACAATATTGTAGCATTAGACCATCTGCCAAAATCTAATTACCAAAAATAAGGTTCTTTTCGAG  
40321 ACAGGGTCTTGACAGTGGTGTGATCATACCTACTGCAGCCTTGAACCTCTGAGCTCAAGTGTGATCTCCTGCCATC  
40401 TCTCAAGTAGCTGGACTACAGGCAATACCCACATACCCAGCAATTTTTTTTTTGGTAGAAAATGAGGTC  
40481 TCACCACTGTTGCCAGGCTGTCTCAAACACTCTGAGCTCAACAAATCTCCACCTTGGCTCCAGTGTAGGATTA  
40561 CAGGCATGAGCTACCATGCCAGCCAGTTTTTTTTAATGTGGCTAGAGTGTGGGAGAAAAGGCTGCCA

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40641 ATATGGTAATGATGTGATCCTAGAAAATGAGAGAACAGGCCAGGCACAGTGGCTCAAGCCTGTAATCCAAACACTTGGG

rs1855916

40721 AGGCAAGGCAGTGGTCACTTAAAGCCCTGACTTCAGGCAAGCCTGGCAATACAGTGAGATCCTGTCTATTAA  
40801 AGAAAAGAAAGAAATTAAAAATGAAACATGAGAAAACACAACCTTTCTACTAAACACTAACAGCAAGAAAAGGA  
40881 AACAGCGGGCTAGAATGACTGTTGACTCTAACAGTACATTAAATGTTGGAGGCAATGGCAGCTGTGCAAGCTGGAT  
40961 GGAACTCATCTGAAACAAAGCTCTCTGACTACAGACATGAAAAGGCAATGGTCTCCAAAGAAATAACTCTCTGA  
41041 GATTTTACAAATGATGCCAACACAGAAATACGGAAAAGATGTCCAAGAACATGAGAACAGGTTCTAGGTAAATGTGAT  
41121 TAATTCAAACAATTAGTGGAAAGGGCACAGACCTGGCAATAAGAAAATCTGGCAGATACTCTGAATCACTTTCT  
41201 TTGAAATCTGCCAACATCACGATCTAAGTGTGACAGCCATTTCAGCTCTCTAAACTCTCACTTTCAATTATTTTA  
41281 ATTTTCTTTTTTTTGAGACGGAGTCTGCTCTGCGCCAGGCTGGAGTGGCAGTGGTATGATCTGGCTCCCTGG  
41361 AACCTCCACCTCTGAGTCAGCGATTCTCTGCTGCCCTCCACACTAGCTAGGATTACACACTCGGCTTTTT  
41441 TTTTTTTTTTTTTTAAGATGCCGCTCTCACTCTGTTGCCAGGCTGGAGTGCAGTGGCCGATCTGGCTCACACAAAC  
41521 CTCCGCTCTGGATTCAGCGATTCTCTGCCCTCAGGCCCTGACTACCTGGACTACAGGACACGCCACCATGCCCTG  
41601 GCTAATTTTTGATTTAGTAGAGACAGGGTTCACTATGTTGGCCAGGCTGGTCTCAAACCTCCGACCTTGTGATCCG  
41681 CCCACCTCGGCCCTCCAAAAGTCTGCCATTAGGCGATGAGCCACTGCCACCTCTTGTATTTTAAAGAGACAGGG  
41761 GTTTCGCCATGTTGCCAGGCTGGCTCCAACCTCTGACCTCAGGTGATCCACCCACCTTGGCTCTAAAGTGTGGGA  
41841 CTACAGCGTGAGGCCAACACCCGGCTCAATAATTAAATAGGGATTCAAATTAGTGAACCCCTCTCCTCCACTA  
41921 GTAAAATCTACACTATCATGATACAAATTAGTTAAAGGATACACACAAAAGAGAACAGAAACTTGAAGAAAATCT  
42001 ATTGATGAGATTCAAAATCATCTAAATACTGATAGGAAAGCTAAAGGAATTGAGCTCATGAAAAATGC  
42081 TAAAAACCATTTTTAAGTGTGTTTTTTTTGAGACAGGGTTGCTCTATCCCCCAGGCTGGAGTGCAGTGGCATGATCT  
42161 TGGCTCACTGCAACCTCGGCCCTGGGTTCAAGCGATTCTCATGCCCTCTGAGTAGCTGGGATTACAGGTGCC  
42241 TGCCACCATGCCGCCCTAATTGTTGTTACTAGAGATGGGGTTTACCATGTTGGCTAGGCTGGTCTTGAACACCC  
42321 AACCTCAGGTGATCCACCTGCCCTAGCCCTCAAGTGTGGGATTACAGGCTGGAGGCCAACACGCCCTGCCCTAAAGTGT  
42401 TTCTTAAAGTAAGAAAAAGTCAAGAAAGATTAGGCTTAAAGTTAGAAAATTCAGTCAACTTTACTGAGTTCTACCA  
42481 GGTCAAATTCTGGGAAAGACAAAATATAGTCTCTATTGAAAAGACTCATAAATTAAAGGACACATGACCTATAGCAA  
42561 ATGTAATCAGTTAATCTCATGTTAACAGATGGCAGGACTACTCCTCTTACCTGGCTTTGAAATAACATGGCT

FIG. 6K

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

42641 CTTTAAACTGTAAGGTTGGACCAAACACAGAAAAAAGGAGTTGAAGATAGGTGAATGAGCCAAGTATGAAACCACCTCTC  
42721 TAGCCAGGTGTTGGCTCATGGCTGTAACTCAACAATTGGGAGGCTGAGGCGGGTGGATCACTTGAGGTAGGAGTT  
42801 CAAGACCGAGCTGCCAATATGGTAAACCCATCTCTACTAAAAAATACAAAATTAGCCAGGTGTTGAGCCACCT  
42881 GTAAATGCCAGCCACTCGGGAGGCTGAGGCAGGAGAATCTTGAACCCAGGAGGGCGAGGCTGAGGTGAGCCAGATGTT  
42961 GCCATTGCACTCCAGCTGGCAACAGAGACTCTGTCTCAAAAATATAAAAATAAAAGGAGAAATCACATCTC  
43041 CAAACACAGATAAGCAACATTCTAATGCTAGGCAACTACCAAATCTAACAGAATCTGTCCATCATCTTAGAA  
43121 ATGCTGGAGAACACGGAGATGGGGAGAACTGGAGATGGGAAATGCTGTAACCTTCAGGAAATGGTAACTCTCAGGAG  
43201 TGAAGCCTGAACACCAATAAGCCAGTAAATTAGGAATTGATCCCTGACAAAATTCTACAGTTAACCTGTCAACTGTCA  
43281 ATTTAGACAAGAAAACCGTCGTTATCACTAGGACTTICATGGACTAAATAGAATACTCTCCAAATAATGAAATTA  
43361 TTATGACTAAAGGAAAGGACATGACAAAGAGCTCTAGTGTCTTTGAGATTTAATATGGTAAACACCTTGACAGGAA  
43441 ATAGGATCAGGGAGGGTGGTGACAAATGATCATTGAGTAATAATAGGTAACACCTTGACAGGAAATCAAGTCTCAA  
43521 ATTCAAATAATTCCTAACAATTAGGACTGGCAAAATGAAACTGGTACCTTGGTATTAAATGAGTCCCCATCTG  
43601 GAAGAAGTAAACTGAAGCTGGTAACTACTTAGCTGGGATACTGCAGAACAGATAACAGTACACTAACACCATTAA  
43681 TATAAGGGACTTGGACACTTGGGATTITGATATCCATGGGGCTTGGGAAACCAATCCCCTGGGATATGGAGGGCAGT  
43761 GTATACCTAACAGGAGTTGGATTAAATGGCCTCTAGGTTCTTCAATTCTTAAGAGTTCTGTGTTTATTCCTACTG  
43841 GTTGAATGTTAACACTTGTCTCAGGGTATTAAAGAAGGTAATCTTACCCCTGAGCCACCTAGTCGGTCTGGCAGCT  
43921 GGCAATTATCCAGGCTGTTTGACCATGTATCACTGACCTACTACAGTTAACAGTACAGAGACAA  
44001 CCCTGTAGGAAAGGTTCTCTAAATCTGACACTAAAGCAGTATTAAATGCAATAAGATATCAAATTTAGAA  
44081 ATATGCAATTCTCAAAGTAAACATATGCTTCAGCAATTGACTCTCTACAGGTTCTGAGGTTCTGAGCTATACTGGCTTAG  
44161 AGCAGCAAGAATTATAATTAAATCATGGTTTCTTCTTACAAAATGAAAGCACATCTTATTATATGCTATACTTT  
44241 ATATAGCATTACCTTGTTGTACAACACTTTTGACTTTGCTAAATCATTTCACATCATACAGATAAGCACTATCC  
44321 CCACTTGAGCATGAGCAGGGTTCAAGGAAATTAAATGACAGCAGCAGTATTCTGACATTATATAAACTTAACTTCA  
44401 AGTCCCCCTTTCAGGACTGTCAACTCTGAGGTTTACGTTAACATGTTCAAAACATTGAAAGAAAAAAATGATGTATCC  
44481 AAGATCTCATGACTAGTACTGGTACAAAACCACAAAATTAGTAATCTGAGGAACTTAAAGATTTGCTAGTGAGG  
44561 CCGGTATGGGGCTCACACCTATAATCCAGCCTTGCAGAGACGGGGTGGGATCACTTGAGGTAGGAGTTGA  
44641 GACCAGCTGGAACATGGTAACTTGTCTCTACTAAAAAAATACAGCCGGGATGGCTCAGGAGTTGGCAGC  
44721 CCCAGCACTTGGAGCGAGGCGAGGCTGAGGTTGACATCTGAGGTGAGGTTGGCAGCAGCATTGGCCA  
44801 CCATCTCTACTAAAATACAAAAGTTAGCTGGGTGGTGGCAGGCACTCTGAGGTTGGCAGCAGCATTGGCCA  
44881 AGGAGAAATTGCTGAACCCGGAGGCGAGTGCAGTGGCCAAGATCTGAGGTTGGCAGCAGCAGCAGCAGCAG  
44961 CGAAACTCCATCTCAAAGAACAAAAACAAAATTAGTCAGGATGGGGCTGCATGTTATCCAGCTACTGGGAGG  
45041 CTGAGGCAAGAAAATTGCTGAAACCTGGAAAACAGATTGCTAAACAGTTCTATTAGTAAATCTATAGCTTTCTC  
45121 ATGTTGGTAAGAGTTTATTTGAGGTTATGATAAAATTCAACCGGATTAGGCTGATTAGGCTGATTTC  
45201 ATAGGTACACTGAGAAAATACAAATTGTTACTTGCTAAATGAGGCAAGTAAATTAAAACAGTGTGGC  
45281 AAGTAAAGTAAAATTAGTGTGTCTCTGGGTTATTTCTCAATGTTAATGATGAAAGTAAATGATGTATCA  
45361 TAAGAGCGTTTTTAAATTGATGAGTCCTTATGGGTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT  
45441 GCGCAGGGTGGAGTCAGGGCATGTCCTGGCTCACTGAGGTTGGCAGGCTGTTGAACCTCAGGCT  
45521 CCTCCCAAGTAGCTGCAATTACCGTAGAGATGAGGTTTGCCATGTTGGCAGGCTGTTGAACCTCAGG  
45601 GATCCACCCACTTGGCTCCCAAAGTGTAGGATTAGGATGAGGCCACCCACCCAGGCTTAAAGACAGGGTCT  
45681 CACCTGTGGCCAGCGTGGAGTGCAGTGGTATGATCATGGCTACTGCAACCTCCACCTCTGGCTCAAGTGATCCT  
45761 CTGCTCAGGCTCCCTGAGTAGCTGGGACTACAGGCGAGTACCCACACCCCTGCTAATTGCTACATTCTTCTT  
45841 GGTTTCATCATGTTGCCAGGCTGGCTCGAATCTGAGCTCAACCAACTCTCTATGCTCCAAAGTCTGGC  
45921 TTATGGGTGTAACCAACTGTGACGGTCAATGTGTTTCGTTAGTGGTTACTGTTCTATGAGAAATCT  
46001 TGCCCTGCAAGGTTTGAAGATATTGTTCTATGTTGAGGTTTATAGATTAGTGTGTTATTTAGGTCTATG  
46081 ATCTATCTCAAATTAAATAGTATGAGGCAAGGTCACATTCTCATATTTCATATGAGTCAGCTACTAGAAC  
46161 AGCACCAATTGTTGAAAGATTTCATCTCAATTATGTTGATGCTCTCTCAAAATAAAATCAACTGACTGGCC  
46241 TGCAGTGGCTCATGCCCTGTAATCCCAGCACTTTGGGAGGCCAGAACGGTGGATCACCTGAGGT  
46321 GCCTGACCAACATGGGAAACCCCGTCTCTATTAAAATACAAAATTAGGCAACATGTTGGCTGCTG  
46401 GCTACTGGGAGGTGAGGAGAACAGAATTCGCAATTAAACTCGGGAGATGGAGGTTCTAGTGGAGG  
46481 TTCCAGCCTGGGCAACAAAGGTGAAACCTCATCTCAGGTTGGCAGGAGGAGGAGGAGGAGGAGGAG  
46561 AAATATGGTATACATATAATGAAACACTATTAGCCTAAAAAGAAAGGAAATCTGTCATATGCTACAACATGGATG  
46641 AACCTTGTGAAAGACATTATGAAAGTGAATGAAACAGGACAGAGAAAGGTTGATGTTGATGTTCTACT  
46721 AAAGTAGTTAAACCCATGAAACAGAATGTAAGATAGTGTGTTATGAGGAGGAGGAGGAGGAGGAGGAG  
46801 CACAAACAAAATCAACTGACCATGTTGAGGACTATCTGGACTCTGTTCTCCAAATGATTCTTCT  
46881 CCATATGATGTCATAACTACCGTGTCTTAATTACTGAGCTTACTAATGCTCTCAAATCTAGTGGTTAATCC  
46961 CACATTGGTGTGTTTCTGGAGTGTCTGACTTATCTAGGTCCTTCTGATGTCATATAATTGGAACC  
47041 ATTCTGAAAGGAAACAGGCTGGGAAACATGGTAAACAGGAAACCCCATCTACTACTGAAACACAAA  
47121 TGTTGGCATACCTCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAAGGAAACCCGTTGACACTGG  
47201 GTGAGCTGAGATGCCACACTGCACTCCAGGCTGGGAGACAGAGTGGAGATCTGCTCAG  
47281 AAAAGAAAAAGGGCAGGTGCACTGGCACATGCCCTGTAATCCAG  
47361 TGAGCTGAGGACTCTGGGAAACATGAGGACTCTCTCTCAG  
47441 TTGGTGGCAGATGCCGTAAATCCCACCTACTTGGGAGGCTGAGGCA  
47521 AGTGAGCCAAGATGACACTAGTGCACCTCAGCCCCGCAACAGAGCAAGACTCTGTCAT  
47601 AAAAGGCCGGTGCATGGCTACGCCCTGTAATCCCAGCACTTGGGAAGGCAAGGTAGGCAGATCACAAAGTCAAG

FIG. 6L

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Atty Dkt No. 37481-3308B

47681 AGATCGAGACCACCTGGCCAACATGGTGAACCCCTGTCTACTAAAAAATACAAAATTAGCTGGGCATGGTGGCGCGT  
47761 GCCTGTGGTTACAGCTACTGGGAGGCTGAGGCAGGAGAACAGCTTGATCCTGGGATGTGGAGGTTGCAGTGAGCCGAGA  
47841 TTGCGCCACTGCCACTCCAGGCTGAGCACAGCGAGACTCCGTCTAAAAAAAGAAAAAGAAAAAGGCCGGAAC  
47921 GGTGACTCACGCCCTCAATCCCAGCAGTGGGAGGCTGAGGTGGCCGAGACTCCGTCTAAAAAAAGAAAAAGAAAAAGGCCGGAAC  
48001 TGGTCAACATGGTGAACCCCCATCTACTAAAAAATAGCCAGGTGGGGGGTGCGCTGAATTCAGC  
48081 TACTCAGGAGGCTGAGGTAAAGAGAAATTGCTTGAAACCTGGGAGGCGAGGTTGCAGTAAGCCGAGAATTGCAACCATGCACT  
48161 TCCAGGCTGGGTGACAAGAACTCCACATTTAAAAAAATAATAAAACAAACAGGTATAGTGGCTTGCAACCCATA  
48241 ATCCCAGCTACTCAGGAGCTGAGCAGGAGAACAGCTTGCAACAGGCTGAGCTGAGCTATGATCCCGCCA  
48321 CTACAGTCAGCTGCCGCTGACAATGCAAGACCCCTGTCTAAATAATGCAAGGCTGAGCTGAGCTATGATCCCGCCA  
48401 GATTITGGTTATGATTACATTGAGTCTATGAATCAGATTGGAGAGAACTAACATATTAAATAATCAAGTCTCTAATG  
48481 ATGACTATAGTATGCTTCTCCATTATTAGGCTTCTTCATTTCCTCGCTAATATTGCTCTCTACTGTTTT  
48561 AGTTTTTATGAGTCTGCTTCTTCTCGCTAATATTGCTTCTTGTGCTTATTAATA  
48641 CTTCTTTTAAATTCTATTGTTGAGTCTATATATAGATGCAAGTTGTTGCTATGTTGACCTTGCAACCTGTGAC  
48721 TGTGCTGAATTCACTATTGGTCCAGATTGAGGGAAAGTAGATTCTTCTAGGATTTCACATATGCAATTATG  
48801 GTATCAGTGCATATATCCTTAAACCATTAAATTATGTAACCTATCTCGCATCCCCCACTAAACTACGTCAGGCA  
48881 TGAATAACTAACATTACGTTATACAAATTTAATCTACAACTTTCTCTGTTGCTCACTGAATGGAAAAGCAAAG  
48961 TTCTTCGTTTCAATTCTCAGTAAATTATCTAGAGTTGAAAAGAGCATTTGCTGTTAAAGGCAGAAATGATCAACTCA  
49041 GCAATCTAACTGAAATTCAAGCTGCACTTTCTAGTAAAGATTCTGATCTGAGCTTCTGATATCATAATCAATTCTG  
49121 ACTAATTAAAGGATTAGGCATAATGGGACTTAAATATGCAAGAAACTGCGTAGGAAACATTGTAACCTACTGGGT  
49201 ACCTCAACAGGAAATTAAATTCTAAATTTTCACATGTTTCTTCTGAAAGACTCTAAATTGACCCCTAA  
49281 TATATTTTTAAACCTAAACCATGGTATCTTCCATTAAATTCTAGGCTCAGTAAGAAAAAAAGAAAAGAAAA  
49361 TTCTAGACTGGCACAGTGGCTCACGACGGCTGTAATCCAGCACTTGTGCGGCTAAGCCGACTGCTTGACCCAGGA  
49441 GTTTGAGATCCACCTGGCAACACAGTGAGACCCATCTCTATAAAATTGTTCTGAAGCTAGATAATTATCTGACT  
49521 CATCCAAACACTGTATCATAATATAAAACATTAAACAGATAGGGTGTACTATGCTGCTCAGGC  
49601 TGTCCTAAACTCCTAGTCTCAAGTGATCCTCTGCCTGGCTTCCAAAAATAAGAATTAGCTGAATCCTAGCA

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49681 TGAGGTCAGTAAATCTGGCTAAATAGTATTCCTAGAAGAAAAGTCACCCAGTCCACCAACCACCTAGGAGTGACAATA  
49761 GATAGGCCAACCCACCTGAAACATTAGAACATTAATTATTGTTCTCAACCTAAACAGTATAGTGCAGTCATATAT  
49841 GCAATTATCGCTAATGAAGCTTGATAATATGCTGGAAAAGTTCAAAACATGGTAACTAGGAAAAGATTCTGATAGGAT

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49921 AGTTCTGTCAAAACACTTTTTTTTTGAGACGGAGTTCACTCTTGTGCTAGGCTGAGCTGCAATGCCATG  
50001 ATCTCGGCTCACAGCAACCTCCACCTCTGGCTCAAGCGATTCTCTGTGAGCCCTCCCGAGTAGCTGGGATACAGA  
50081 TGCGCCACCATGGCTGGCTAAATTGTTGATTTTATTAGAGACGGGGTTCTCCATGTTGGCTAGGCTGCTGCAACT  
50161 CCCGACCTCAGTGATCCGGCCGGCCCTGGCTTCCAAAGTGCTGGGATTACAGGCCAGGAGGCCACCCGGCCAGCCCCAAA  
50241 AGATTTTTTTTTTTACAAAAGTTCTACATTGATCTTATTCATAAAACAACTGTTCAAAACTTACTCAA  
50321 TAACCAAATTGCCAGTAGAATTCAAAATACTTCCCTAACAGAGGGAAAAATTAAAAATGTAACATGTCATTCAAT  
50401 TATATTCCCTCTATCATTGACTTTAGAAAACATAGATGAAATTCACTGTTTATGGGAGGAATATCATGTCCTGCTCACA  
50481 AGCCTTTAAAGGACTACTTCCCTCTAGAAGAAACCTCTGCTACTATAAGAGTTGGACTTTGATTTCAGGTTAAC  
50561 ACTGGTCAATCAGGAGGATTCTGAGAATTGTAATCTTACTGTTGCTTAAGAAAAGAGGGTGCCTCATTTGCTTATATG  
50641 AGTCAGAGTGGGCTGACTTTGGGCTTGTAGTTAGAATAAGCCAGTTAAGACAGGTTATTCTATTTTATT  
50721 TATGATAATAAAATTATTTGTTTAAAAATGTCCTCATCTTTAGAGATATTGCTCTAAATAATTAGGGTGAAG  
50801 GGGGATGACTGAAGAGGGATGGGTAGATAAAAGACATGGCCATGTAATGGGAGGCTGTTGCTTCAATT  
50881 ATACTATTCTCTACTTTGTAATGCTTGAATAAGGATTCTACAAATTTCAGATTCTAATTCAGATTCTA  
50961 ATCATTATTGAAAAATTAGTGTATAATGTAACAGGTTCTGACTCACCGGACATTCTGGTCTGAGTTATCGAG

Exon 11

51041 ACCCATCTCTATTAAAGTCAGGTCTAAATTCTTCCAGTAAATATTCCGCTGTGAGCACCTCTCTAGGGATAATACTTTT

Exon 11

51121 AAAAAGAAAAATAAAATAAAATAACAAAGCTACTACATGTTTAAAGCAGATCTGTAACACATTAATTCA  
51201 TTACTGTACACCCCTCTCTCTCAGTTAAATTCTACTCCATTGGAAAAATTCTGTAGCCCTAAATCGTTGCTCTTT  
51281 CCTACACATCTTAAGCAGTTCTCATATTGTTGATGTTCTGCAAATATACTGTTAATCCCCAACATCTCCATTG  
51361 TAGAGAGCAAATCACATTCTCGGGAAAACCACGAATGTTCTGTTAAAACACTGACTACTGTTAATGAAGAAAA  
51441 TTCGATTTAAACATTAGCAACACCTACAGGATTTTAAATAACTACACACATTTTATGAACACAATTTCCTCTAA  
51521 ATTCTCTATGAAACAAATTAGCAACACATTTAGGAAGGGCTGTGAAAAGGTTATATTGCTTATATTGCTGAG  
51601 AAAACAATGCGAGAGTCTTGTGAAAGACCAACTTCAATATACTGAGACACACTGACTGAIATTCTCATCTAATAA  
51681 ATATTAAATGAACATCTACTATGTGCCAGACACTGTTCCACACACTATGGATACAAAGTAGGTAACACATGAAATCC  
51761 TTGTCCTCCAAGAAGCACACAGACATTGTAATGGGAGGGAGGCAGACACAAACAAATTGTAATGTTAGTGAGAGA  
51841 TGCTATGAAACAAATAAAAAGGGCAGGGCATTATTAGTGGGAGGTCAGAGAAGGCTGAGGAGAAGAAACTCT

FIG. 6M

**Heller Ehrman White & McAuliffe, LLP**  
 Sheet 65 of 113  
**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**  
**Serial No. To be assigned      Applicants: Becker et al.**  
**Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B**

51921 GAGTGGAGACTGAAATGATAAGAACCTAGCCAGGCAAAGATCAGATAGAACAGTGTTCATGTTAGAGAAAATAGCAATGG  
 52001 GGGAGAATAAAACTTAATGCTTGAAGATTAGAGAGCCAGTACAGTTGGAGTGAATGCAAATGGGAGAGGTGGGCTGGAC  
 52081 AGTGGTATAGAAGATGGCCAGATAGGCCTGGGCCACATCACCTTGAGGCCAGAAAATTTCATGCAATTGCAACTC  
 52161 TGTGGGAAACACTGAGGAATTAAACAGAGGAGGAAACATTCAGATTTAGTGAATGCAAATGGGAGAGGTGGGCTGGAA  
 52241 AAATAAACTACAATGGGGACCAAGAGGAAATTAGGGATGCCAGTAAAGACTATCATGGTAGCCAAAGCAAGAAATGAT  
 52321 GATAGCTCAGACTAGGGATGGTAGCAATGGAATTAAAGTAAATGATCAATAGCTTCATATAAGTAACACCTGAT  
 52401 ATGCTCTAGAACTGAAATATTTAAAGCCAATAAGCAAATGCAATTAAATAAAATATACATAAAATAAATTTAC  
 52481 GATGATGAAATTAAGATTTAAACATCTCGACATCAACATTGCCCCTGCTACAAAGTGTGAAAGCTTACCTC  
 52561 AGCTTCATAATTGTAATCATTCAGTAACTGAAATATGCTGAAAGACTCCACACAGCAATGTATACAGT  
 52641 AAAATAACACAAACTTACATGCAATATTCTGCAATTAGATGTATAGCCCCCTGGCCTCTTTGCTTTAACCTA

Exon 10

52721 AAAGCAACAGCATTCAAGTCTAAATAGAAAGTTAACCAATTAGATAACGGCCACCCCTTATTAGAAACCTTTTTTTT

Exon 10

52801 TTTTTTAAGGTGTTGGCTTGCACATAAGCTTCACTCCATATTAACTTTACACACTTCTGAAAAAAATGGCTATGC  
 52881 TTGATTTAGAAATGTATAGAATTTAAAGGAAATTCTTAATGTGTATAAAATTAACTCATCAATCTAGGCTTAAACCA  
 52961 AAACCAAAATAGTAAACAATTCAATGAAAATAACAAATACAGGATATGGCTGATAGCTAAGTTGTTAAACAT  
 53041 AGCCAAAGAATTAGAAAAACTGTGTGAAAGAACCTGTGAGATCCAACAATTCCACCATAGATGATTTGGTACTCAT  
 53121 TCAGAGAACGACGCCAGATTAGGAGTTCTGCTCATAAATTTCAGAGCAGAGATTACCTTTAAACATTCTAGTT  
 53201 AAAAGGATGTTCTCATAAACATTTGAGAATCTCGATAGGCTTTAAAGCACGTATTAAACCCCTTTTAAACCCCTTT  
 53281 AAAAGGCTTTAAAGGAAACACCAATTGTTAACGCAAAAGGCCAGCCTCTCCACATACAA  
 53361 TAATAAAATCACTTTAAATAACACAACTACATACATAAGCAATTCAATTACTCTTGAGAGTTGCTACAGATTAAAGAT  
 53441 CTGAAAACGACAGGCTCATGCAGCTTCAGGCAGGAGTAACATAATCCCTGACATATTCCAGCTAAGAACATGCTGAT  
 53521 TTTCTCTGAGTGTGAAAGCATTTGATTCTCCCTTCCATCTAAAGGCTACAGATGCCTTCCCTTGTAG  
 53601 TTGTCGCCAAGTAGCAAATCAGACTAGTACAACCTTAACATTAACATTACATGCAAATTAGACTTCA  
 53681 GTTAGGAAAAAAACTTTAAAGTTAACGGCCTTAAATTAAATTACATGATTGCTTGTGAAAACAGATT  
 53761 CCTTAAGAAAAATTGTTGAGAACAAAGTACCTTGCACCTTGCAATTGAAAACCCATTCTGAGGTCTCTGACGTAACCT

Exon 9

53841 CTGAATGTATTGAAACATGTGAAAATTATATCTTCAACATGTACTGGAAAAAAGGGCACACTTAAACCAATTCACTC

Exon 9

53921 CTTGAATCCTCAAAGCAGTGAGCTCACTCTTAAGGTAAGCTCAGATAAGTGAAGATGGCCCTCTTAGAAAATGCACT  
 54001 CCTCACCTCCCTGAGACTGCCATTACGTGTCCCACATACATGGCCCTCTGGCTCAGAGATATGTGACAGAAAGGTGTT  
 54081 GGGCGAGTAAATGAGCAAATAAAAGCCAAGTCCACATTAAACAGTGCACATAATGATCAGTTGTTAAGGGGAAAGA

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54161 ATCATCCATGAAACAAAGGCCAGTTACATATGAAAATACAATGGATAAGTTGATGAAATTAAAGTGTGTACCTTCA  
 54241 ACATAAAACAGATCCACAGCATGAGAAGTTAAAACATCATAGAAAGTAAATTTCATTCAAAAGTAAAGCTGAAAT  
 54321 CAATACTTACATAATCTCTCGGTCAAGTCCACATTAAATGATAAAAACATAAAACCTCGGGCTCCTTCTGCCCC

Exon 8

54401 ACCAACAAAGACTATTACCCAGCCTGCAACATTCAAACGAAATCAATACGATTGATTCGATATGTGCTTCTGAAAGAT

Exon 8

54481 AAGAAAAATTAAAAATTCATACTGTATGTTCTTAAGATATCAGAATGAACCTCTGGCAAAGATTGGGAAAAAA  
 54561 TCAGTTAGGAAACGACTTTAAGATGGTGCAGAAGTGGGGCTTCTCTGAAGATTCTCAAAATCAATTCCAGTCAGAG  
 54641 TAGACTACTGGCTGGCGCCGCTGCTCATGCCCTCTAAATCCCAGCACTTTAGGAGGCAAGATGGCGGATCGCTTGAGAC

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54721 CAGGAGTTGAGACTAGCCTAGGCAAAATGGCGAAACCCATCTCTATCTAAAGAAAAAAAGAAAAAAAGCAACA

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rs1832195

54801 GCGTCCAACACCACCATCTCACTCACTAACCCAAAATGGTCACATCTAACAAATGTTCTCATAGGACACTATTCA  
 54881 AGAAAATGAGAGCCAGACTGAAAGATGTGGTGGACACTCAGAAGATGCTGCCAGGAGACTACCCCTTGACTTAAGTT

Exon 7

54961 CTGATAACAGACTTCCAGGACCTTGTGCCAATGAGATGACCAAGATAATGACCAGGATTGATTGAGTATTCTGA

**FIG. 6N**

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*

Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

Exon 7

55041 AGGTCAAGGTATGGGAAATGTCACATAGAGATTCTTAATCTTTAATGGTACTATTGTAAAGTTGCTGGAGAAAACA

Exon 7

55121 AATCACAGAGATTAGCTATAACGACTCCTACTGAAGAAAATATTCTAAACTATGAAGAAATGATTTCATGGGAGAAC  
55201 CCAAATTAAAGACCAATCAATTGCCACAGAAAATGATACTGACCACAAAGAAATAATGACTCAGCACTCTCCTAGT  
55281 GGAATTTCATTACAGTCGGTATATAGTCCTATGTTGACCCCTGAACCATGCGCTAAATATTAAATGGTTTGAATGCTT  
55361 ATCTTCAGGTACAGGTTAACAGCTTCAACACTCTATTAAAGACTACAGCTACAAAATCTACTTTAGCATGTAAGACAG  
55441 AACATATTGATATGTTTGGTGATTCTATGCTTAATAAATGTCAGATTGAGATTGATTTATATCCGACAATATTAAAC  
55521 CACATGGGGCGGGTGCCTGGCTCACCTTAATCCTCGACTTTGGAGGCTGAGGGAGACAGTCACCTGAGGTC  
55601 AGGAGTCGACCTCAGCCTGGCAACATGGTAAACCCCATTCTATTAAAAATACAAAATTAGCCAGGCACAGTGGCA  
55681 TGACACCTATACTTCAGCAGTCACTCAGGGCTGAGGCAGAAAGAATTGCTTAACCTGGGAACCTGGAGCAGGGTTC  
55761 CGATCGCCGCTGCACTCCAGCTGGGAAACAGAGTGAACATGCTCAACAGCTTCACTGTCACAAAACAGAAACAAACA  
55841 AAAAACACTATAGGGCTGGGTGCAGTGCTCACCGCTGAATCCACGATTGGGAGGCTGAGACAGGTGGCCAC  
55921 TTGAGATCAGGACTTCGAGATCAGTCAGGCAACATGGTAAACCCCTGTCATACTAAAATACAAAATTAGCCAGGTG  
56001 TGGTAGTGTGACTTGTAGTCCAACTACTCAGAAGGCTGAGGTGGAGGATCAATTCTAGCCAGGGAAATTGAGGCTTC  
56081 GTGAGCCATGTCGACCCACTGCAATTCCAGCTGGGAAACATGTCAGACTCTGTTCCAAACAAAAAAACAC  
56161 AACATAATAATGAAACCTCCCCAAATTCTACACTGTTCTATGGTAAACACTGTTATATTATGTCATAATTAAAGAAG  
56241 ACAAAATACCAAAATTATGCACTTAACTTTAAGATGTTCTTGGAAAGGGTTCAGGAAATTCTGCAATGGAACAT

Exon 6

56321 TTTTGTCTCTACTTCAGAAAATAACTTACCAACAGATTAGTCAGTCATCTAAAGATTCTACAAGAAAACAGACAAGG

Exon 6

56401 AAAACAGAACTTAACGCAATCATAACATCCAACAGGGAGTCTTAAATCTTAGGATCTCTGAAAAGTCTCAGTACTAC  
56481 TGAAAGAAAATGTAAGGAAATGATTACACCTCACACCTATCTGTTTCTACTTTAAACAAATATTACAAATATTATC  
56561 ATATTATTCACAAGTATTATAAATAAAACAAATATTAGAAACAATAATGCAATTGGAAAATGACTATGA  
56641 TTCCCAACAGGCATATATACTGAACACTACTAGCAGATAGAGTATAATGTTACCTTATACATAGACAGAAATTGCTTCT  
56721 ATGGTATAAAATTATCTTTGCTCTTAAATGTTGATTTTATTTAAACAGCCTTATTTTACTTTAGTTT  
56801 TGACACGTGAAAGGACTCCAAAATGCACTTATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT  
56881 TACATCTCACATATGATATATCACATACATCTCACATATGATATATCACATACATCTCACATGTTGAAATA  
56961 TAGCACACATCTCACATATGATATAGCACATACATCTCACATGATATAGCACACATACATCACATATGAT  
57041 ATATAGCACACATATCACACATGATATATCACATATGATATATCACATGATATATCACATATGATATAT  
57121 GATATTAGCAAAATTCTACTTTGGAAGTATAAGAAAATGACTTGTAGTCTTGTGAGAGAGGGCACAGCAGTCATAGGA  
57201 TGGATAAAAGAACGACTGCTTTTATTATTACCTTCTGTGTTGAAATTAAATTCTTCCATTGTGTTG  
57281 ATCCTAAAAAGAACGACTGTTAAAAAAAAAAACTTTTTTTTTTTGAGCAAGGTTGCTCTGTTG  
57361 ACAGGCTGGAGTGCAGTGGCACAATCCAGCTACTGCAACCTCTGCTCCAGGTTCAAGTGTATTCTCATGTCCTCAGCC  
57441 TCCCCAGTAGCTGGGATTACAGGGCTGCCCCAACCCCCCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT  
57521 ATGTTGGCCAGGCTCTCAACACTCTGAGCTCAAGTGTCTGCTACCTCAGGCTCCAAAAGTGTGCAATTACAGAT  
57601 GTGAGCCACCATGCGCTGGCCAAAACCTGCTTTTATAAAAGATAACCTCTCATCTTGATTCTGCTCCTC  
57681 GGTTATTTATAATGGTATAAACATTCTACAACTGTTACTGTCAGTAAGCATTGAAATCAAAATAAGATTCTGCTTGT  
57761 ATTCTATGACCCATTGGAACTTTTCCATGAATTCTCGAGACTAAACTGACTATTGAGGCTGCCCTTATATGGT  
57841 AAAATTCTTCTGCTTAACTGTCAGGCTATTGCTTATTGTTATAAAATACACTACACTTGTGCTCAATT  
57921 ACATGATGAAGGACTCCAAAATGTCAGGAGCCAAATAAAGGAGCAGTCAGTGGCTGCCATTATGACAAGTGAATT  
58001 AGGAATGGAGAAGGAATTGTAAGCAAGAGATGTCAGAGACATCTTTTGTGAGATGGACATATGACTTGTGAAACAAAGGTG  
58081 AGCAGTCATAAAAGCTTGTGGGCTGCACTGTCAGTGACAGCAACACCCCTGAGCAAGGTTCTACCCAGGTGTT  
58161 TCTTGCCTATTCTACCCCTAAAGCATAAACTCAGTGTCACTTTAAAGGTAAGGGAGCTAAACACTATTGCAACAGT  
58241 CTGTCTACCCCACTAAACTGTCAGCTCCAGGAACTGAGCTCCACTCACCTCATATCATCAAGGTTGGC  
58321 AACCTCAGTGTCTGACTTGTATTACCTATGTCAGATAATTAGTGTCTCCACAATAGGGAGACAGCT  
58401 CCAGGAAGAACGAAAAACTTTGTTCCCTGTGACAGAGACTCTCCACATGGTACTCTCTCTCTCCCGTC  
58481 AAAAGAAGGAGTGGATTCTTTAATCTCCTAAAGAGATGTCAGTGTGAGACTGAGAGTCACTCTCTCTCTCTCT  
58561 CTCTGGTTCTGAGCAGGAGTCACTCACATGTCAGTGTGAGACTGAGAGTCACTCTCTCTCTCTCTCTCTCT  
58641 ATTCTTATTCTGTCTTCACTAAACCAAGAACATTCTGAGGACAGGGATCAGGTTGATTCACTATTGCCATTGTT  
58721 CTTGCCATTAAATGGTTACTGAAATCATGTTAATCTCAAATACAAACATAGATTAAAAAAACACCCAGC  
58801 TTTGGCACCTAATGCCAGGACTGGGTTCTAAACAGCAAGTGTATTAACTCTAACCCACCTACCTGAAAGCA  
58881 CATAGCATTACAGACTGCTTTTTTACTGCTCTCACCTCTGAAATCCATTACACCCCTGGTTCTGCTACCAACT  
58961 TAAAAAAATAGTTTATTCTAACTATAAAAGTAACATTGCAATAGCAGAAAATCTAGAAACAAAGCTAAATTATGGT  
59041 AACAAAAGTAACTGATTATTCATGTTAAAGGTTGCTAGAGTGGCTACTACTGTTTATGGAGCAATTGCTATGTG  
59121 GCACCTTGCTAACACACTTGTATATCTCAATTAAACAGGTCACACAGGTAACATGTCACCCACCACTTACAAATGTG  
59201 AAAACTGAAAGTTGAGGACTGAGTGTGAGTTCTAATTACTATACAAACATTAAATTTCTAGTACATGCTTCCATT  
59281 AGCCAGGTTGTTGACTGAGTGTGAGTTCTAATTACTATACAAACATTAAATTTCTAGTACATGCTTCCATT  
59361 TTGCTTTTACCTACACCATAATGGTATATTAGAGTTGGTGTGTTGAGATGGAGT

FIG. 60

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

59441 CACTCTGTTGCCAGGCTGGAGTGCAGTGGCACAACTTGGCTACTGCAGCCTCACCCCCCAGGTTCAAGTGATTCTC  
59521 CTGCCCAGCCTCCAACTAGCTGGGATTACAGGTGCCACCATGCCGTTAAATTCTATTTAGTAGAGATG  
59601 GGGTTTCCCATGTTGGCTGGCTGTCAAACTCTGACCAGTGCATCACCTGCCCTGGCGATCTGG  
59681 ATTACAGGTGTGAGCCACTGTGCTGGCACCTATTAGAGTTAAAATTTGTGGGGGATATGCTTGGAAATT  
59761 TAATAAATCCAAAATGGGACCATATAGCACATGTTTGTAAACAGCTTTGTTCTTAAATATATAAGAACATT  
59841 TTAAAAAATTATTTCTTATATAATACATATAATTAAATTAAGAACATTCTCCATGGTAAACAGTGTCACTAAAGAACATATA  
59921 ATCATATATGAGAATATTTAGAACATATCTCCATGGTAAACAGTGTCACTAAAGAACATATA  
60001 ATATTTACCATGATGTGCCAACAGGCGGGAGGTACTGGAGATAAACAGTGAACAAACAAAGTTCTATTCTCAAG  
60081 TAATTTACACTTGGTAGGGTGACACAAAACACACAAATTAAACCTGAGCTTAATACTATAAGAAAAGC  
60161 AGGTAGATGAAAGTAGAAATAGGAATGTTATTCTATAAGATATTCTATTGCAATTAAAATCAGTATTAGCC  
60241 ATCTCTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACT  
60321 TTGAACTCTGATTCTGGAGATTGCACTTTAAAGTAGCATTCTACTTAAACTTAAAGACTGATACTGTAAACT  
60401 GCCCTCCAGAAGACTAGAGCAATTGATACCATCATTACCAATATAAAAGCAACACCATCGGAGTGGTATTACTTC  
60481 AAAACAAAATGTGATAATTAAACAGCAGGAAACAATGTTAGTAGCTTAATCTGCAATTAAAATCAAACCAATTGTTAC  
60561 ATTCCAAATGTTTCCAACTGTTTATCATCATTGCTTTTTTTTTCTCAGTTTTTTGAAATGTTATAAGGTCAAATCTGC  
60641 CAATCTTGCTCTTTTGTGTTTTTTAATATGAGATCTCTCTGCCACCCGGCTGGAGTGCAGTGGTGTGGTG  
60721 ATCACAGCTTAACTGCAGCCTTAACTCTGGGCTCAAGGCATTCAGCCTCCCTAGCAGCTAGGACTACAGGTGCA  
60801 GACTACCACATCCCCTAAATTAAAAAAATTTTTTGGTAGAGACAGGATCTTAACTATGTTGCCAGGCTGGGTTGCC  
60881 TTGCTTTTATGCTTAGAGCACCTTAACTGTGTTAATTTCTCAGATCTCCACTTAAACTCTTTGGGA  
60961 ACACAAATGTTAAACATCCCCACCTATGTTTCTAAACAGTAGATCATTTCAAAAGATGCTGAGCAAATA  
61041 AGCAGCTTAACTTAACTCCATCTTAAACACTGTGAAAAGCCAACATTAAAACCTTATATCCAATTCTATAAAA  
61121 ATTGTAAGGTTCTTACCTCGACCTAAACACAAACAGCCATTAAAGTGGATGAATAGTAAGCAGAATGAAATTCAAGTGA

Exon 5

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61201 GCTCTTGTCTTACATCAATGCCCTCTTGTTGGCTAGTCTCCAGAGTATATTGTTACCTGGAAAGGGAAAGAAAAGGGAA

Exon 5

61281 TTTCTTAGAAAAAGCAAATATGTTGACTTTAAAGTTTGTAAATTACTGATAATTGCTTAAGATGAACCTTAAAT  
61361 AAAGTTCTAACTACACAGAATAACTCAAATTATTTGAATGTTAACTGAAATAAACAGGATAATAGAGTACAAACACAGCAAC  
61441 ATTTAAACTATAGTCGCTCTACGGAATTAAAGTGTCTTTTTTTTTTTTGAGACGGAGTCTTGCTCTGCTTGCC  
61521 AGGCTGGAGTCGGGTGTGATCTGGCTCACTGCAAGCTCCCGTCCCGGGTTCAAGCCATTCTCGCTCAGCCTC  
61601 CCAAGTAGCTGGACTACAGCGGCCACCACGACACCTGGCTAATTTTGTATTTTAGTAGAGATGGGTTCTCCATGTGGCT  
61681 GTTAGCCAGCTGGTCTCGATCTCTGACCTCGTGATCCGCCCTCAGCTCCCAAAGTGTGGGATTACAGCCATGA  
61761 GCAAGCCGCCACCCGGCTTTTTTTTTTGAGACGGGAAATTCTGCTTTATGCTCAGGCTGGAGTGCACATGG  
61841 GTGATCTGGCTCACCCCAACCTCCGGCTTCAAGTGTGTTCTGCTCTGCTCTAGTAGCTGGATTACA  
61921 GGCATGCGCACCACGCCGGCTAATTGTATTTAGTAGAGATGGGTTCTCCATGTGGTCAGGCCTGGCTTGAA  
62001 CTCCCGACCTCAGGTGATCTGCTCTGGCCTCCCAAATGTCGGGATTACAGGCTGACCCACCAAGGCCGCTPAA  
62081 AAGTGTCTTAAATTATACATTGGCCGGTGCATGGCTCACGCCCTATAATCAGCCTTGGGAGGCCAG  
62161 GCAGATCACCTGGAGGCTGGCACATGCTGTAATCCCAGCTACTTGGGAGGTGAGGAGAATCAGTGAACCCAGGAG  
62241 GGCAGCGTGGTGGCACATGCTGTAATCCCAGCTACTTGGGAGGTGAGGAGAATCAGTGAACCCAGGAG  
62321 AAGTTGGGTGAGCCGAATCACGCCAGTCAAGATTGTCGCACTCTAGCTGGCAACAGACGGAAACCTCGT  
62401 CTCAAAAAAAATTATACATTCTTGGCTGGCCTCAGTGTGACACATCTGTAATCAGCAGCTTGGGAGGCCAG  
62481 ATGGGTGGATCACCTGGAGGTTGAGGTTCAAGGACGCCAGCTGGCAGTGGTAAACCCCTCTATTAAAATCAA  
62561 ATTAGCCAGCATGGTGGCACCTGCTAGTCTCGGCTACTCGGGAGGCTAGGGATGAGAATCAGTGAACCCAGGA  
62641 GGCAGAGGTTGCACTGAGGCAAGATTGTCAGCTCTGGCAACAGAGTGTGACTCTGCTCAAATATGTC  
62721 TATATCTGTTATATCTCCACTTCTAAATCCCTATGAGATAGTGTGTTATGCTGCTTAAAGAACAAATAAGA  
62801 TCCACATGGCTTCACTTCAGTCTTAACTTCAATTCTCTGCTACTCCATATAATTAACAGACTCTGAG  
62881 GATTTTTAGAACATTGCAAGTACTTGTGAAAGAAATTACTATTGGCCTAAACATTAAATTGTGATGTGAAT  
62961 TCTCATAGATGTGACTAGACTGGTAAAAAGGATGCAATGCTATTAACTCTCAGCGATGTGACTG  
63041 CACTAACAGCTCTCATGAAATCTTAAACTAATTCAAGTGGTAAATGTAAGTCAAACAAATAGTCAAATTCT  
63121 CTTAAATAACTCTTCAAAATTAGGGACTGGGAGATGAAATTCTCAACTGATCGGTGCTCTCCAAATGGCATCTGACTGG  
63201 AAATCTCTAAAGATCCTGGCATAATAACTTTTATTGTTCTACTTACACTAAGTGAAGATCCTGCTTTCTCTG  
63281 CAGAGATAAAACTATGGTAGACTATGTTGAAGTGGTTAATTCTTGTGTTTATAATATCTGATATAG  
63361 GGCACTGGGAAAGTCCCTTTCATGAAATTGGATGTCAGAGAACAGATGCCCTCTCAAACACTCAGTCTT  
63441 CTCAGTAGCTGCTCACAGTACTAAGATTCTGCTGGCAGAATGCTTAACAGATCCAGTGAAGACAGAATGTGCAAGAAC  
63521 GCCTAGCAAGTAACCTTAACCTTAACCTTAACTTAAACCTTCTCTAGTACAAAGTAATCATATCATTCAACTAGAA  
63601 GTAGCCTATACCCAAGTTCAGGTTGTTCTGTTTTGTTAAAGATAGGGCTTACTCTGTTGCCAGGCTAGACTGC  
63681 AGTGGTGTAAATCACAGCTCACTGCAGCTCGATCTCTGGCTCAAGCAGTCCTTCACTCAGCCTCAGAGTAGCTGG  
63761 GACCACAAGCATTACCTCACGTCCAGCTATTAAATTCTCTCAACTATGACCAAGTCAAGCTGGCACAGTGGATCATGC  
63841 CCAGGTGGTCCAGGTTCTTAATTAGTTCTCTCATTTCTCAACTATGACCAAGTCAAGCTGGCACAGTGGATCATGC  
63921 CTGTAATCCAGCATTGGGAGGCCAAGGCAGGTGCATCACTTGAGGCCAGGAGTTCAAGACCAGCCTGGCAAGCATGG

FIG. 6P

Heller Ehrman White & McAuliffe, LLP

Sheet 68 of 113

Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned Applicants: Becker *et al.*  
Date of Filing: 6/18/03 Atty Dkt No. 37481-3308B

64001 TGGCATGCCTATCATCCAGCTACTCAGGAGGCTGAGGCATGAGAATCACTGAAACCAGGAGGCAGAGACTGCAGTGAG  
64081 CCAAGATCACACCACTGCACCTCCAGCGTGGGTGACAGAGCTGAGGATCTGATTGATGATGATAAATAAAATAATA  
64161 TAAATAAATAAATAAACGACTACTTCGCTTTACTGCCAGAGGCTGAGACATTCTCTACTTCTCACTCTACCTGA  
64241 GGGGTCAGATGCTTTAGCTGACATACCCATACTCCTTAGGAAAAAAAAGGCCCTTGAGAGATGTTT  
64321 GAAGTTCTCTCGTATCAAGGTGAAATTGAGTATTGATGAAGCCTTCTTCTACTAAATGAAGATTCTAAAGCCACA  
64401 GTTCTAGAGGGAGTTTCTTAAGCTCTTACTGCATGCCACTCGGGTCACTGCAACCTCCACCTCCAGATT  
64481 CAATTGATTCTCTGGGGAGGAGATCTCTGACTGATGCCAGAAGTTACTTACTTCTCTGAGGCTCAATCTC  
64561 CTCAACTGACATTAGTGCACATACAGTACATAATGAGAAAATACAGTAAAAAAAGTAAAGACTATTACTAACAAA  
64641 ATGTTAAAGTCTTACGACACCAACTGTTGTTAGTATGAGAGAATGAGAACTCAGACACTGCCTGATGGAGTGCATCTT  
64721 GAATCAACCGCTACAGGAAACACCTAGTCACTGAGATGTCATCTACTACATAGTAAATTCCACTCCTGGATAT  
64801 ATGTTAGCAGAGAAGTCTGTCAGAACAGGAGACATGTACAAACATCCATAGTAAACAGTGTGTTATTAACAGGAAATGAA  
64881 TAAATAGTGGTACAGTCATTCAATGAAATTTCAGAACAGCAAAATAACAAAATTATCAGAGGAATACTCATCAATAT  
64961 GGACAACCTTACAAAACAAAATGTTGAATGAGAAAATACAAGCGGCAGAGATTACACACAATAAAACTATTCCATG  
65041 AAACCTAAAACATATAAAACTATAAACACGGAATGATAATCATTAAAGAAGATAGTGGTTATCTCAGGAGCAGGAA  
65121 GGAAATGCAACTGAAGTGTACCCGGATGCTCAAAGTGCATTGTAACGTTCTTCTTAAAGCAGTGTGACAGAGAA  
65201 TGATCTGGCAAAATGTCITGTAACCTACCTCTTGTATGACAACTACATCAATAATCTGTTAAAGTATTAA  
65281 ATAATACTTAATAAAACACGGAAAATAACAAACAAACAGTAGCTACTGCTGTTACAATTGAAATTGTTAGGAGGAC  
65361 TCTTGGCTCTGAGTGAATCATTATAACAAAAGTACTACTCCCAGAGAAAATAGAAATTGTTAGGCTAGAAGCTGAGT  
65441 AAATGGTCCAGATGACTGCCCCCAACCTAAGAACCCATGTAGGAGAACAGCTGGATAAAGGCTGGGATAAATAA  
65521 CCAATTCTGACTGACACACATCTGCTTAATTCTGCTCATTCTGCTGATCAGCTGGCTATTATGTCATAAATTAAATGCTGCT  
65601 ACTTGTACTAAATCTTGAATCTTACCTTCTGCTGATCAGCTGGCTGAGCTCAGCAGTGAATGGAGGAGCAGGG  
65681 TTGCTCACCTACTGTGACCCCTCACTCTACGCCGCTAGGAGAGAACACTGCCTGGCATTAGGAATTTCAGGATTCT  
65761 TGTCCCTGACTCATGCTGCTAATTAGCAGAACCTTGGAAAGTCTCCAAATATCTCCAAGGGTCAATTTCATCTG  
65841 TAAATAGGGATAATGGAATATGTCAGGCTTAAGGAGAACCTGCAATTCTGACTCTCCTGACTCTCTTCAATTCTCA  
65921 GCTGTGAGACACGGCACGGTTCTTAACCTCTTACGCCCTCAGTTACTTATCATAAATGGCATAATAAGAGGACCA  
66001 ACCTCACAGGATTGCTGTGAGAATTAAATAATAATCTGCCAGGCCGGTGGCTGACACCTGTAATCACACACTTT  
66081 AGGAGGCTGGCAGGCCGATCCTGAGGCTCAGGAGCTGAGCACGCCGCTGCCAACATGGCAAACCCCGTCTACTA  
66161 AAAATACAAAATTAGCCAGGCTGGTGGTGTAGTCCAGCTACTCGGGGAGGCCGAGGAGAATCGCT  
66241 TGAACCTGGGAGGTGGAGGTGCACTGAGCCAAATCAAGCCACTGCACTCCAGCTGGGTGACAGACCAAGACTCCATC  
66321 TCATAAAATAATAATCCATGTTAAGGCTCAGCATAGCATCTATCAGACAATAATTACTGAATATTACATGGGTT  
66401 TTGTCAGGCTTAAGAATCTTAATGATGGATGGAAGAGGGGTTGGTAATTCTAAATCCAGTAAGTCTACTTTATATT  
66481 TTCATTAAACAACTATTAAATTCTGTTAGAACAAATAAGCTTACAAACACTGCACTAATGTTATGAAACTGAT  
66561 TTTCAGGAAATAAAATTATTTCCTGGAAAATTCTGAAAGCCAGCAATATTCTTACTGGAAGCAATGAGTT  
66641 AAGTTTAGAAACGCTCTAGAAACCACAGGTTCTCCAAATAGTATGTTCTCAGGGAAAGGTCAACTGATAGTTAAACC  
66721 CATTATAATTTCATGTTCTGAAACCAAGATCTGAAAGTACTGCTAACATCTACTAGCTAGTACTGGATT  
66801 ATTATAAACTTTTAAAGGCCCTTCTCTCTGCTATAGCAATCTCTAACTGTTAAAGGAGACTAAAGCCTTT  
66881 TGATATATGTAATTCTCCACAAAATTAAACCGACAATTCTCTGCACTGAGTAAGTATATGCAAGTACAAGATATG  
66961 AGTTATAAAAGCCGACTTAAAGTGAACATAGAATTAGCATTAGAAAACCAAATTAGGGAGGTGATGCACTGAGAATCAATATT  
67041 TTTCAGTAAATTCTAGTTTCCACAGACACATCTCCAGTAACGAGAAAAGTAGTAAACAAATCCATGGAAAAGC  
67121 TAAGGGAACAATAATGATTACATGGACTAAATAATGAAATGTTTACATCTGACTCTATGTAACTCATACTC  
67201 CAAATTAGTCACCCCTGAGGCTGACGAAACATTCTTAAATTGAAATTTGTAATGAAATTGGAATGGAATAAAAGC  
67281 ATTCTCTGCTTCCACAGTAACCTGACTGACTAGCCAAATAGTAGAAAAGGAGATTTCAGCAGTACTCAAG  
67361 TTAATCAAAGAGATGGAATAATGAAATTAGCATTAGAAAACCAAATTAGGGAGGTGATGCACTGAGAATCAATATT  
67441 GCAACATCATAAAAGCAGACATGTTGACATGCCAAATGGAACAAACATCACCACCTATGAGATGTTGCAAAAAGTC  
67521 AACACAAAATTGTAACGGCTCTATATCCTAACTGCAATTGTAAGAAATCAGAACAGAGAACCTGTTAAACTACA  
67601 TTGTTAGGGTGCAGTAAAAAAAAAACTAGGCTATGAGAAGTTGATAAAACAAACACTGATTATTCAATAAAT  
67681 AAATTCCAAGGGGAGTGAGGGAGTAGGAGAACAGAGATGAGGATGAAACTCTAAACTAAAAAGAGACTTAAAG  
67761 ACATATCAGACTGGAGTGGTGGCTCACTTTGGGTGACTCTTTGGGCTCTGACATTGGGTGTCAGGTGGAGAA  
67841 TCGCTGAAACTAGGATTCTGAGAACAGCTGGCAACATAGTGAGATCTGCTGAGTCTCTCTACAAAATTAAATAAT  
67921 AATAATAATGAAAGACATATCAACAAATCACTAATATGTAATACTTTTGGACTCTGATTCAAATAAAACTTTAAAATA  
68001 ATGATTTTATAAGAACACTAGAAATTGAAACACTAATGATATTGATAAATGTAACAATAATGTTATTGTTATG  
68081 TTTTTAAAAAATGAAATTGCTATGTTAGAGATATAACTGAAATTATTGAGAAAATGATATCTGAAATCTTCAAA  
68161 ATAATACAAAGGGTGAATGGAAATGTTGAGTACAGAATTGGCAGGGCAGGGTGTGACACACATAGGGTCATTATA  
68241 GTATTGTTGTTCTTCTGTTGTTGAGTATTGTTAAATTCTTCACAAAAAAATGGTGAAGGAAACAAAGAGGAAATAAGGGT  
68321 GGGAGGGAACAGAGAAAAGTAATTGAACTTGTTAGAGTCTGATTGGTGTGTTATTGTTACCCACAGGATCAGG  
68401 AGTCAGTAACTACCCCTGGTCTATTTCCACAAATTTTATGGGTTCTTCTTCTTCTACTTCTCTTCTCTCT  
68481 ATGCAAAAGCATCCTTGTATACTCCTAAACTATCTTCACTCTGTTCTCTCTCTCTCTCTCTCTCTCTCT  
68561 TCTTCATGTCATGGTTGGGGTCACTTAAATTACTCATGAGAACATAGGCTTGTAGTTCACTGACTTGATAAT  
68641 TGAATTCCATAACCTATACAGATAGTTCCACTACCCCTATCTCTCTCTGACTCCCTGCAAGACTAAACACATT  
68721 AGTCAGGAGAAGTGAACACTGGCATCTCCGCTAAGATCTGAGGAAATTAATTCTGGCAACACTAAACATGCAAAATAG  
68801 ACTTCAGGAGAAGTGAACACTGGCATCTCCGCTAAGATCTGAGGAAATTAATTCTGGCAACACTAAACATGCAAAATAG  
68881 AATAGTGTAAAAGCTCAAATCTGGCAGACATCTGACTCCAGCACTTAAAGCTGAGGGACCAAGGCAATTAA  
68961 TATCTTAAGTCATTACTCATGTAAGTGGAAATATGAGCATCTACCTACTGGGTTACTGTGAGAATTATTAGAAA

FIG. 6Q

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

69041 TTAAATAATCCACGTAAAGTCTTAGCATAGCACTCAATAAAAATTAGCAAGAAAAAGGAGGAAGAAAATGGAGAGATGA  
69121 TGATCCTGGAAAATCAAAGCTAAAATTACACTCAGTGAATCCTGGGTTGCCTTCCTCCCAACTAAACTTTTCAGCAC  
69201 CTTGACTGCAATGACACTAGTACACTCTCTTCTAATGCACATTACATGCTAGGGGACTAAAAAAATTACTTA  
69281 TTAACGTGAGAGAGAAAATGGCTCATTTATATTATAATCCTATGAACTTGAACAGTAAAGCATACTAGAGTAATAGC  
69361 AGCGGACTCAGGCAGATGACCTGAGCTCAGAAGTTCGAGACTAGCCTGGGCACATCGTGAACACCCTGTCCTACTAAA  
69441 ATACAAAAACTAGCCAGGTGTATGGCACCTGCCCTTAATCCCAGCTACTTCAGAGGCTGAGGAGAACATCGTTGAA  
69521 CCCAGGAGATGGAAGCTGTAGTGAGCCAGAGATCATGCCACCGCCTCCAGTCAGTGAACAGAAGGAAACCCCTGTCCTCAA  
69601 AGAAAAGAAAAGAAAAGAAAATTCTTCTTCTACTGTTGAGCTGGGACAGTGGCTACACCCATAATCCTAGCACTCTG  
69681 GGAGGCAAGGCAGGCAAATGACCTGAGGTCAAGGAATTCGAGACACAGCCCTGGGAAACATGGTCTCACTTAAAAAA  
69761 AAAAAAAATTAGTTAGGCAATTGGGTATGTGCCTATAATCCCAGCAACTTGGGTGGCTGAGACATGATAACCAACTTAAA  
69841 CCTAGGAGGGGGAGGTTGCACTGAGCCAGATCATGCCATGTCACCTCAGCATTGGGACAAGACTAACAGTCACTGCTTA  
69921 AAAAAAAAGAAAAAAAGAACATCGCACCACCTAAAAATACAGTCACCCCTCTAATTCCTGTCCTCAACTGTGCCCTTCA  
70001 TTCTACCTATACATGAAGGAGTACCTGTTTGTGTTCTTCACTCCTCTTGCACCTTCAGTGAACCTTCCTTATTTCCACT  
70081 GAATAAACCCAGTTGCTCCACAGTGCCTGAGTTATGTTGGAGAAACAGATCGTAAGGAATAACCAAGAAACTAAGT  
70161 TTTTCCCTTACTATTCTAAACCTGCTGTAAACATTCACACTGCTCCACTTAAATCCATGAGAGGCAACAAAGACTAAC  
70241 CAAAATAGGGCAGAAAATGGTTCTAGTTTCACTTATAGGAACATATGGAATAATGGAATAATGAAGAGAAAAAG  
70321 TGAAAGTGGATACCAACTAAATTCATAACATATTAAACATATTATCATTCAATTCAAACATTAGCTGGGCACTGGCAGGC  
70401 ATGTAATCCCAGCTACTTGGGAGGCTGAGGCAGAACTGCTTGAACCCGGGAAGTGGAGGTTACGGTAACCTGAGATTGTG  
70481 CCACTGCACTCCAGCCTTGGTACAGAGTGAAGACTTACATCTCAAAAAAAATATATAATATTATATTATATTAT  
70561 TATATATAATATTTTATATTATAATATAATATAATATAATATAATATAATATAATATAATATAATATAATATAATATA  
70641 ATAATATTTTATATAATATAATTTTATATTATAATATAATATAATATAATATAATATAATATAATATAATATAATATA  
70721 ATATAATATAATATAATATAATATAATATAATATAATATAATATAATATAATATAATATAATATAATATAATATA  
70801 ACATGATCAAGTGGGATTCACTCAGGGATGCAAAGATGTTCAACATAAACAAATCAGGCTGGGACAGTGGCTCACGC  
70881 CTGTAATCCCAGCAGCTTGAGGGCCAGGTGGGATCACCTGAGGTGAGAGTTGAGATCAGGCTGGGCAACATATAG  
70961 CAAACCCCGCTCTACTAAAAAAATACAAAATACAGATGTTGAGGCTGCAATCCACGCTTCAAGGCT  
71041 GAGGCAGGAGATTGCTTGAACACCGAAGTTGCACTGAGCCGAGATGGCACCACTGACTCCAGCCTGGGCAAAGACTG  
71121 AGACTCCATCTCAAACAAACAAACAAACAAAAATATACAAATATAACATAAACATGACATCACAGGGTC  
71201 AGGTCTATGGCTCATGCCCTGAAATCCAGCAGCTTGGGAGGCCAGGTGGGATCACTTGAGAGTCAGGAGTTCAAGA  
71281 CCAGCCTTGCACATGGCAACACAGCTCTACTAAAAAAATACAAAATAGCAGGCTGTCAGTGAACCCGGAGGCTGCCCC  
71361 CTGGGAGGCTGAGGCAAGAGAATCACTTGAACCCGGAGGCAAGGTTGCACTGAAGCCGAGATTGCAACATTGCCCTCC  
71441 AGCCTGGCAACAGAGTGAGACTGCTCAAAACAAAATAAAACAAAACATGACATCACAGTAACAGAACTAAGGACA  
71521 AACACCATAAAGCTAAAAGGCATTCATAACACATGACATGTCATGATAACACACTGGGTCAACACACTGGGAGA  
71601 GGAACATATGTCAAAACAAATAGGCTGATATGACAACACTGAGCTAACATATGGAACAGCAGGCAAAGTGAAGC  
71681 CTTTGCCTCAAGATCTGAAGAACAGCATCCCACTTTTACACTTATACAGCATAGCACTTGAAGTCTAGCCAGA  
71761 GCCATTAGACAAGACATAAAAGGCATCCAATGGAAAGAAGTCAAACACTGTCATGTTCTGAGACAACATAATCTTAT  
71841 TTAGAAAACACTGAGAAGCTCTATAACACCTGTTAGAAGACTGATAATGAATTCACTGAAAGTTGCAAGGATACAAAAGT  
71921 CAGCATATCAAATCAGTAGCATTTCTATATGCCAACACTGAAACATCTGAAAACAAAACACCAAGAAAGCAA  
72001 TCCCATTTATAATAGCTACAAAAACAAAACACACAACACACACCCCTTAAGAACACAAACTGAACCAAAAAG  
72081 TAAAAGATCTACGGCTGGCGCAGTGGCTCACACCTCTAATCCCAGAACCTGGGAGGCCAGGTGGGAGATCACTCGA  
72161 GCTCAGGAGTTGAGACAGCCTGGCAACATGCGAACACTCTCCACTAAAAAAATACAAAATCAGCTGGGCGTTGTG  
72241 GTGCAAGCCTGTAATCCCCTACTTGGGAGGCTGAGGCAAGATTACTTGAACACTGGGAGGTTGCACTGAGCTG  
72321 AGATGGCCCACTGCACTCCACCCCTGGGAGAACAGGGGACTCCGCTCTCAAAAAAAAGTAACAGTAAAGATC  
72401 TCTACAAATGAAAATCTAAAGAGAAATTAGGAGGGCATACACAAAAGGAAAGACATCTGTGTTCATG  
72481 GACTGGAGAAGACTAATATGTTAAAATGTCCTACATCAGGATCACTGCAACCCCTATCAGGAACTTCA  
72561 CAATGATATTCTCACAGAAAATGAAAATACCTAAATCTATGGAATCAAGAACAGGACTTTTCAGAATCTCA  
72641 CTGCTCTTCAACAGCTACCAATCAGGTTATTAATCTATGATTATTAACATTATGAGGCTTCATATGCACAA  
72721 TCTCATTTAATATTGGCATCAACCTGATGTGGAAAGGAACCTGGGCTTAGAGAACTTAAGAGGCTGGGATGAGGTTCA  
72801 TGCCCTGAAACCTAGCACTTGGCAAGCTGAGGCAGGGATCATCTGAGGCTACGGTTGAGACAGCTGGGCAACA  
72881 TAGGGAGACCCATCTCTACAAAAGATTAAGAAATTAGCTGAGTGTGCTAGTGTGCTAGTCTAGCTACTTGGGA  
72961 GGCTGGGTTAGGAGGATCATTTGACCCAGGAGGAGGTTACAGACTGCCAAGATGCCACTGCAATTCCAGCCTGG  
73041 GCAACAGGGTGGGAGGCAACACATCTCTGCTGCAACACACACACACACACACACACACACACACACACACAC  
73121 TTGAACTTCTGGGTGCAAAACCATCTCTGCTGCAAGCTGCACTTACAGGTGCAACACACACACACACACACAC  
73201 TTGTTGCTCTCTTTGAACAAAGGATTAAAATTTCACTGAGGCTACAGGTCAGTTATCTCTAAACCATGTTCA  
73281 TTGCTGCTTCTGTTGTTAGAACATTTCTCTATCTGAGGATTTAAATCTCATATATTCTTCTTAAAG  
73361 TTGTTAGGCAACCAAGACTCAGTGGCACATGTCGTAGTCTATAGAAAGTCTACATAAAAGTCTAAGAAAGAA  
73441 TTTCATTTGTAATGTACCTCTGCTTATATCAAGTTCTCATATGTTGAGTGTGTTCCAGGGCTATAATCTGTTCTAC  
73521 TTGCTATCTTCACTGCAACCCCTGCTTCAATTCTACTACTGTAACAAACTGAGAAGTCTTAAATAAAGTCTTGGTACCTGGT  
73601 GTAGCTTCTCTGTTCTCAAAATATCTTAGCTATTCTGGCTTACTCTCTTAAATTATGAGATTATAC  
73681 AATTCTAAAAAAACTACAGGACTTCAACTGGCACTGCATGAAATTAGAGAAATTGGGCAATTACATT  
73761 GTTATATAGAGTTAACCATCATGATACCTCCCCATTAGGATTCTTATCCATTACATATTCTT

FIG. 6R

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

rs2421942

73841 CAACTCTTCATGGATTATTCGAATATTTACAGCTTGTAAATATGCAAATGAAATAATTTTACCCAGCAT  
73921 TTTCTGTAAATTGATATTGATAACAGAACATGGCCGGCACGGTGCTAATGCCGTGTAATCCTAACACTTGGAGAGGCC  
74001 AAGGCGGGCGATCACGAGGCTGGAGACATGGACAGGATCTGACTAACATGGTAAACCCCATCTCTACTAAAAATACAA  
74081 AAAATTAGCTGGCGTGGTGCACGTCCTGTAAATCCTTAACTACTGGGAGCTGAGACAGGGAACTGTTGAACCTGG  
74161 GAGGCGGAGGTGGCAGTGAGCCAAGGTACGCCACTGTACTCAAAGAACGCAATTAGTGTGTTGCTCTTCTGG  
74241 CAACCTGTGAAATTATTTAATGACTGATCTGAAGATTCTTCAGTATTTTATGGAGGCAATCCTATCATATGGAA  
74321 ATAAGGAAATAGGTTTGTGCTTCATCTCTTAAATCACATTCCCCCTGATTATGTAATGATTAAAT  
74401 ACCTGTAACTATAGCCTAAACAAAAGTGATAGTGGGCATCCTTAACTTTCAACAGAAATCCTTGAACACTCCATTAAATC  
74481 ATGAACTTTGACAATAGCTTAAATCAGCTGAAAGTTTTTATGTTGTGGTTTATTTGTTGATGGATGACTGCTGT  
74561 GTTTTATCCAATGCTCAGAGTCCTACTGTCTATCACTTGGACTACTAAAATGTGGGTCAAGGACCCATTATATTGTAATT  
74641 AAATGCAATTAAAGTATTAGCAGATCAGACTTCTCTAGAAAAAAACAGAAATAAGGGAAGTGCAGACTAC  
74721 ATCCCATGATGTAAGATAGTGTGACAAATTGTTGCTTCATGCTTACACAAACACATATGTAATCTGAATTGCTA  
74801 AATAAAATGCTGTTCTACTATGAGTTGCTATACAAAAAAGACTTGTGAAAGGCCACTAATCTACTATTTCTGACCATGAA  
74881 AACCGACTGTTAGGACAAACATTTACTGTAAAGTTCTTAAACAGATAATACAATGTTGTTTATTCTGATGCTCATGCTGAA  
74961 AAATCACACCTTTCTGTTGATATTAAATCAAATCCCTGATGAGACAGGCCATGCTCATGCTGAA  
75041 TCCCAGCACTTGTGAGGCTCAGGGGGGCAAGCATCTGAGGCTGAGGCTGGGACAGCCCTGGCTAACATGCTGAAAC  
75121 CCCATCTACTAAAAATACAAAATTAGCTGGGATGGTCTGGCTGGCGTAAATCCACCTACTCAGAAGGCTGAGGC  
75201 AGGAGAATCGCTTGAACCTGAGAGGAGGGTGCAGTGAGCCAAGATCACCATACTGCACTCCAGGCTGGACAGAG  
75281 CAAGACTGCTAAAAAAACAAAACAAAAACAAAACAAAAAAATCCCTGATGAAACAAAGTGGCCACACTCA  
75361 CAAAACATCTGAGGCAAAGCACTCATATAATTAGCATGAAATTCTGACAAGGAACCTACTGCAACGATCACTTTG  
75441 CAAAGTTTCAATATGCTATAATATCTGAGATAAGGGCATACAACTGTCATCAAATTCTCAATGTCACCTGTGACCTTAA  
75521 AATACACAGAACTCTACTCCAAAAAATTCAACGTAAGTTATAATTCTAAAATCAGAAGGTAACCTGACATTGCTTAA  
75601 CTTTATACATTTCTGACTGTGATTGAGTCTGCTACTTGTGTTCTCAGCTGTTTATATTACCTTGTACTTGTCTA  
75681 ACTGCCTAGTTTCAGGCTATAAAAAGAAAATATGCTGAAACTCCTGAAACCTATGCTATGCAATGTATCTCTT  
75761 TGCCCATCTTGTGAAACCCCTTCTATAGAATATTAAAGATTGTTCTGTCAGGCTATGCTCATGCTGTTAAT  
75841 CTCAGCACTTGGGAGGGCAGGGAGAATACTTGAGGCCAGGGCTTCAAGACCAGCCTGGTCAACATAGTGAGACCC  
75921 CACCTCTACAGGAAAAAAATGTTCTTGTGACCAGAAGTAAACACTACTGACCTTATTCACTGGATTATTCTG  
76001 GAAAATGTAACTGTTCTGATTATGCTGATTATAATTGCTGACTTGTGAAAGCTTATTTAAAGGCAACTCCAAA  
76081 GAGGAGCTTCAACATATTCTGAAATAGCAGCATTGTTGTGTAAGTATCTAACATACAAAAGGACTACTTTAAATAA  
76161 TCGCCAGGGCAGTGGCTCACGCCGTAAATCCAGCACTTGGAGGCCAGGGCAGGGCATACCTGAGATCAGGATT  
76241 TGAGACCAGCCTGACAACATGGAGAACCCCGCTACTAAAGTACACAAATTAGCCGGCATGGCGGCC  
76321 GTAATCCACAGGACTCTCAGGAGGCTGAGGAGAGAATGCTGAAACCTAGGAGGAGGTTGAGCGAGCTGAAATCAG  
76401 GCCACTGCTTCCAGGCTGGGTGATAAGGCGACACTCCGTCTCAATAAATAAATAAATAAATAAATAAATAA  
76481 TTTGAATGTAATGCTTGTGAAAAAAACAAAAAAAGTTGTTGTTTTTGAGACAGGGCTTACTATCACCCAGGCT  
76561 GGAGTGCAGTGACTCAATTGTGGCTACTGCACTGCAACTGCTCAAGCCATCCTCAGGCTCCAGGTAGCTTGG  
76641 CTACAGCACACACCCATTGCTGAAATTATTCTCTGAAAGATAGTGTCTCACTATGTTGCCAGGCTGG  
76721 TCTCAAATCTCAGAACAACTCTCCACCTTGGTCTCTAAAGTGTGAGTCAAGGGCATGAGCCACCATGCT  
76801 GGCGCTGATATTGTTTAAAACCTACATTCTGACATACCATGTATACTGATGTTCTCCACAAAATCACTTT  
76881 TTAAAAAAATCAGCATTATGTAAGACATTCTAACGACACACTATTCTGCAATTATGTTAATATTGAGTCCAAT  
76961 ACCACGGTTCTAAAGAATATAATCTACTGCTCAAAACTTAAAGGCTTCTGAAAGCTATGCTAAT  
77041 TTCTCTGACTGCTGGATACATTAGGATGATATCCTAAACATTAAAGAAGTGTCTTATGTTTAAAGGCT  
77121 AACTAATTATAAAAAGCATGTTCTCATATAAGAGAAGTGAATTGAGATAATTCTAAGTACATTAAATAATA  
77201 TATTATCATTATCTTATGTAATTATAATACCCAAAACAGTATTTAAAAGTATAGCAATCTGTAACAATGATTAC  
77281 TCTGGTAGGCTGACTGGCAGGAGATGAAAGAATAGAGACAGCTTGTGTTCTGTTTATTTTACTCTAAATGCTT  
77361 TTGACTGTTAAATTTAAACAACTGTTTAAAGGAAATTTGAAAGAAAAGGTTGAAAGGCTTAAAGTCAAGAGCT  
77441 CCACGTTTATCTTATCTACTCTCTTATCCCTTCTAGGAGATTGAGCTTAAAGGCTGG  
77521 TCTTGTGCTTCTACAGTGTCTATCTCCACAGAGCTAACCCCATAGCAGACGCTATGCTATGGATTAGCAGAAGT  
77601 AGAGGCAATGAGGACAAGTGGATTCAACAAACTACAGTGAGCCCTTACAAAAAAAGTACTTGTGAAAGCTAGGTTG  
77681 AATAAAAGAATCTATTCTCCATATGGAATGCTGGTTAATATCTATTCAACTCTAATGCTCTGCTCCTTAAAC

IDE\_4.i.1

77761 GTTTAGAACCTTATTGAAACAGGATGAAAGTAGAAATGTTGAAATTGAAATCTATCCTGAAATTGIAAAATATGCCATGA  
77841 ACTGTATATGCCATGGTTATATACATAAATATACATAAATATTTATATACATAAATATAATACATAAATATACTATGCCAGT  
77921 GGCCATGGTTAAATGAGGTCAACGAAAGCAGCTGTTGACAAACCTGCTCCAAATTACTGAAAGGGTGTGTTAGGATTC

Exon 4

78001 CCTGTAGCTTTTCCAAATTGAAAGAGTCTCCAGGCATCATTGATCACATTCTCTCATGTTGAACTCAACTGCAATTGAC

Exon 4

78081 CTCTCTGTCTTGCAACTTCTCATGAAACAGGGCACAGAAAAACTGTGCAACCTAAGGGTACGAAACATAATTAA

FIG. 6S

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Title: Genes and Polymorphisms on Chromosome 10

Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*

Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

Exon 4

78161 CCTGAAAGATGTCACTTTAAAACAATAGCCTTTAGAAGATTGGACTTATTAGATAGGAAATGTAAATTTCAG  
78241 ATCAGAAAACAAAACCTACCATTTGCTACTAAGAAAAAAAGGATATAAAACTGCTATGAAACAGAAAATCTAATG  
78321 TTGAACAGAGGTAAATGCAGAGCAGTTGATCTACCCAGACATGATAAACAGTGAAAAATTAAACACCAAAA  
78401 AGGCAGATTATGGACAATAGCAGTCTATTAAGATTAAATTGGTACGTCATAAAAACCTTGTACATGTGGCTAAT  
78481 GCTCCAAAAAAACAGAAAGAAGAAAAGGCCACGCTCATAGTTTAGGCAACTTAAATTACAGTTAG  
78561 GTGCAATTCACTTAGACTCAGGCACCTTAGGACAACAAAGTGACCTACTTTAACAGGCTCAATTGAAATTCTTTC

rs868057

78641 TTCTTATGTAGAAAAACAAACTTGAATTAGTAGGAAAAAACATAATGCAGTAAAAACCTGAGGTATGACATAGTTGAC  
78721 TAAGCCATGATTATGGCGTTTATGAAATCATAGAAGAAAAAGTCCATAAAATTAAATAAGCAGTGATTCATAAAATAA  
78801 CATGGTATGTAACCTTAAACATAAGTAACCAATATGCCCTTCTGAGGCTATCCCTAATAATAACCTAACTTTAAGAT  
78881 ACCTACAGCTAAATAAATTAACTCTCTATATCAGGTTGAATTAACTCATGATTTCTGAGTAAATTCTTAAGAAAACCTTA  
78961 CATCCCATTATAGATAAGACTTGATTCAGATGAAGCTAACAGCAGAGGCTCTGAATAGGACTACTTTATTCAGTGGG  
79041 CCTAAGGAACTCTGGTCCATAAACATCTCAGTTACGTCCTCACAGTCCAGCTCACAGAAGGCCATTATCATTACT  
79121 TGTTATTACTTTAAGTCATAAGAAAATATGATACTATGCTAAGTACTTTACATATAACCACAAGGGAAACTCTATCTA  
79201 TCTGGAGTCTATAATCAAAGATCTATGAAAACAGATGATTCTGTCACATAACATCTTTACCCACCTCAATCTTCCA  
79281 GCGTGGAAAAATGTCTAAAGCTACATACCAAAACCTGCGATAGGGCCAGATAAGGATCATGTTATGACACAGTATAATA  
79361 AAGTTTTAAATGATCCTTATACAAGTGGATTTTAGTTGAGGCAAGTAACAGACATCCCCCATCATACAGAGATC  
79441 TATTATATGAAACATCTGTCAGCATTGAAAGCAAGAGATCAAATTCACTGATCCAGGGAACTAAATTATGGA  
79521 AGTCTCTGGAAATACATATTAGCGATGATTACACCTCAAAGCTGCTGCCTAAAGACTGAAACATAAAATAAGTA  
79601 GAAAACAGACTACTTGGCCACATCTCATAAAACCCATAACCTTGCCTTGAATGTTTTCAATAATAATAAC  
79681 TATTATTTAAAGTAAGCAAAATAAGCCGACAGTGACTAAACTGCCAAATTTCATTATAGATCCAAAAGTTGCAAGAATT  
79761 ACACCTTGGCATCACAGAAAATTAATATTCAACCAAGGATAACAAATAACTCTGCTTACCCATAATGCTTTGACTA  
79841 CCAGAGTGTAGTCCATTATTGAGTCAAATAATGAATCAAATCAGTGATGCAACAAAAAAATTAGAAATTGTTAGCTGTA  
79921 TAAAAAATTGACCAAAAAAAAAACCTGACCAAGGCTGGGCGAGTGGCTCATGCTGAATTCCCACCACTCTG  
80001 GGAGCTGAGGTGGGATCAACTGAAGCTCAGGAGTTCGAGACCCAGCCTGACCAACATGGTAAACCCCATCTCTACTA  
80081 AAAATACAAAATTAGCCAGCGTGGCACATGCCGTAAATCCAAATTACTCGGGAGGCTGAGGCAAGAGAATTGCTG  
80161 AACCCGAAGCGAAGGTTGAGCTGAGCCAAGACTGCACCATTGCATTCCAGGCTGGAAACAGTGCAGAACTCCGCT

rs1855915

80241 GAAAAAAAAAAATTGACCAAGAAATTAAATCATCCTAATGGAGCTTGCTCCAGAAAACATTCAAATAATCCCCACG  
80321 GTTGACCAAGAAATTAAATCGGCTTAATGGAGCTTGCTCCAGAAAACACTTTCAAAATATCCCCACGGITGAAACAGCAG  
80401 GTCAAAACGTTCTGTATCTACTAAGCATTGAGAAGCAAGGAATGAACGAGGAGAGAATTTAAGGTTAGCATC  
80481 TCGAACAGAAGTATGTCGAAAGAGATCAATGACATTACAGGTTAGTCCATCACATGCTTATATGTAACACCA

IDE\_3i.2

80561 GTTAGAATGAAAGGGCTGCTGAAAATTCTATACCTCAATAAAATATTGAGGCTGAGGCTCATTTAAATATGAC  
80641 ATCACTCATTTTCTTTCAAGAAAACACAGGAAAACACTGTTAAAATACCTTTGTTAAATTATGAACCCATCTC

IDE\_3i.1

IDE\_3i.D+42

80721 TGTGAAATAAAATTATTATTAAATGTGATAAGTACACAAAGTTGGATAATTGATAGGGTATTCTGCATTACCTGTC

Exon 3

80801 TAGGGCACCTCTAGGTGTTCATGAGAAACATCAAATACTGATTTGGTATGCTCTCCACTAGTAAAGGCATTGAACTTC

Exon 3

80881 CTGCATGCTCACTGAGAAACTGGCTGTTCAATTCTTCTGAGGTTATTCTTCTGTTCCAAAAAAAGCATATGTTCACAA

Exon 3

80961 AAATGACTTAAGCCAGCAATTGGAGGATCCGACAATGAACCTGAAAGAGAAAACACGTATATAATAATCATGTC

Exon 3

81041 TATGCTGAAAGTTAGTAAGTACAGGTGATTGAGTTCTGTTAGCATGACAACCTCAACTATATAATCAGAGAAAGTTA

81121 AGCCACAAGCTACCTAAATGATATTATTAGAAAGTAACATCAGTAGTCAGAAGACTGGTTCTAGTGCCCTGCTTGACG

81201 CTAATTAGTGGTAACCTCAGGCAGGTACTTAGTGTCTGAAACATTAGTTCCACATGCCGGAGAGGAAGAAGAG

81281 CTGGATTCAACAGTTAAGAGGTTAAATTCTTTTATTATTATTTAGGAGACGGAGTCTGCTCTGTC

FIG. 6T

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Title: Genes and Polymorphisms on Chromosome 10

Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned Applicants: Becker *et al.*

Date of Filing: 6/18/03 Atty Dkt No. 37481-3308B

81361 GCCCAGGCTGGAGTGCAGTGGCGAGATCTGGCTCACTGCAAGCTCCGCCCTCTGGGTCACGCCATTCTCCTGCCCTCAG  
81441 CCTCTGACTAGCTCGGACTACAGGCCAACACCGCGCCAGCTAATCTTCTATTTTATTAGGGGGGTTTCA  
81521 CCGTGTAGCCAGGATGGTCTCATCTGCATCTGCAGCTGGCTCCAAAGTCTGGGATTATAGGC  
81601 TTGAGCCACCACACCAGCAAGAGCTAGAATTCTTCTTGATGATTTCATTCAGGAGACTATACAGCACAGTCTAAC  
81681 GCATGCCCTGGGGTTACACTCTACTGGCTGAAACGTAAGCACAATACTGTACCTATCTGACTCAATCGCTTCA  
81761 ATATATACCCATCTACAGGGCTGTGAGTACAATTAGATGACATATGCAAAATCACCCTGGTAGTCTAAGGCATTATG  
81841 GTAGGCACTAGTTATTGTTCAATTACCTTATTCTCAGTCTCAAATGACACTGAGTTAAAGTTTCAAGAGG  
81921 ACAAAAAGAAACACTGCCCCACTAATGTACACATACATAAAAGCAACTCGGCCAGGCACAGTGGCCACACCGCTAAT  
82001 CCCAGCATTGGGAGGAGGGTGGCTAGATCATCTGAGGTCGGCAGTTGAGATCAGCTGGCTACATGGCAAACACC  
82081 TCGCTCTAATAAAAAAACAAAAATTAGCTGGCTGCTGGGGGGCGCCCTATAATCCACAGCTAGGGAGGCTGAGGTA  
82161 GGAAATIGCTTGAACCTTGAAGTGGGGCTGCACTGAGGAGGATTCAGCTCCAGCTCGGCAACAGAGT  
82241 GAGACTCTGTCTCAGAGAAAAAAAGAACACTGATTAAAGCAACATTAAATGTGTAAGAAATGTGCCATGG  
82321 CAGGGCATGGTGGCTCTGCCATTAATCCCAACACTTGGAGGCTGAGGGGGTGGATCACCTGAGGTAGGGAGITTCGA  
82401 GACCCAGCTGGCAACCGTGGTAAACCTCATCTACTAAAAATACCCAAATTACTGGCATGATGGTGGACCCCTGTA  
82481 ATCCCAACTACTCAGGAGGGTGAAGGAGGGCAGAACACTGAAACTCCGTCTCAAAAAAAAAAAAGAAATGTGACACAAGCTGG  
82561 ACTGCACTCCAGCCCCGACGACAACAGTGAACACTCCGTCTCAAAAAAAAAAAAGAAATGTGACACAAGCTGG  
82641 GAGCAGTGGCTCACGCCGTAACTCTGCACTTGGGAGGGCAGGCGAGATCACCTGAGGTAGGGAGITTCAGACC  
82721 AGCCAGCAACATGGAGAAACCCATCTACTAAAAATACAGAATTGGCGGGCTGTGGCACGGCCCTGTAATCC  
82801 AGCTACTTGGGAGGCTGAGGAGAAATTGCTTGAACCCGGAGGTGGAGGTGAGCTGAGCCAGATCACACCAATTG  
82881 ACTCCAGCCTGGCAACAAGAGAAAATCCCACTCAGAAAAAAAGAAAAAAAGAAATGTGACACAAGAACCTA  
82961 TGAAATATGGTATTAGGCCAGGACGGTGGCTACGCCGTGAAATCCACACTTGGGAGGCCAAGGCAGGAGATCACA  
83041 AGGTCAGAGATCGAGACCATCTGCCAACATGGTAAACCCATCTCTAATAAAAAAACAAAAATTAGCTGGGATCTGG  
83121 AGGCCCATGCCCTGACTCCCACTCAGGAGGCTGAGGCAGCTGAATTGCTTGAACCCAGGAGCAGGGTTGCACTG  
83201 AGCCGAGATTGCGCACTGCACTCCAGCTGGCAGACTAAACTCTGTCTCAAAAAAAAAAGAAAAAGAAAAAG  
83281 AATGTTATTAATGTACACCGTAAAAAAATCATAACTGTTACTGTAAGAAATGCAATGAATTGGCTGCTA  
83361 GGTCACTTAGGTGGAACCTAACAGATGTCTTAGAAAATGTAAGATTGACTGAAACAACACTGCACTTACCAAT

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83441 AGCTTTACGAGGGTCTGGTATAAAATAAGGTACATGAAACCGTAACATTGAGTATTAAACACGTATGAAAGTTCT  
83521 AATAAAATGTCAGCATAGTCAGTAAACAAACAAAGCTTAATTCAATTGTAACCTATGTGACATCAAGT

Exon 2

83601 GCTGCTGACTTATCCGTGGGATCACTGATAAGAAGTACTTTGATACCAATTGCCAGCTAGCCCTCGATATTG

Exon 2

83681 TCGCTTGTCTCAGGAGACTTGGTAAATGTGATTTCCTATTCTCTTGATGGCTGGATTATTCAATTGCTGTAAGTCTTT

Exon 2

83761 TTGAAACTGAAAAGAGATTTTAATTGTTGATTTGACTTTATTTAAGGACAAACAATACGTCAAGTAAA

Exon 2

83841 CCCATATAATACATCATCAGATTCTAAATGTAAGGAAACCTTTATAGCCACTCTACAGGGTGCAGTCATCCCTT

83921 TCCTCCCTTACCCCTCATTCCTCTGAGAAATGCTAACAAAATTGTTTATGGAGCCATATTGTATCTGAAAGAGC

84001 ACATGGATAGGGATTGAGATAGGGGGTAGACCATGTTGGCTGTATGCAGAACTAGAATAGAGTTTTGCT

84081 GGTTTGTTTTGTTTTGAGACAGGGTCTCAGTTGTCACCGAGGCTTGTATGCACTGAGTAGCGTGTATTTGGCTCACTG

84161 CAGGCCCTAACCTCTGGCTCACTGGACCTCATCCCTGTCTCAGTCCCCCAACAGCTGGGACCACAGGCACTCA

84241 ACACCCACCCCAGTTAATTGTCATTTGAGAGATGGATTTCACACTTGTGTTACCCATGCTGGCTTGAACCTCTG

84321 AGCTCAAGCCGCTGTCACCTCACCCATGTCAGGATTACAACGTTGAGCTGAGCCACTACGCCCGACCCATAGAATAG

84401 AGCTTTATTCACACTATTTCAGAGTATCTGCTAGAAATAAGTGAAGGAGATGTTGTAAGAATTATTACTGGTTAG

84481 CCCAAACACTGCTCAAACGTGATATTGAAAGATAGGGTAGATCTGGAACCTCGCAGGCTGACATACACATGCTCAGAA

84561 CATAGGAAACAACCTCCATAGGAAACAACCCCAATGAGGAACATCTGTAAGTTCTAATATAAAATAAGAGACCCGT

84641 GCTGTCCTATGACGGCAGCAATAACAGGACATAAAACAAACAAAGTGGAGGACCCCCAAGTATTGTAAC

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84721 CTGCTGAAGAGCTGAATGCCAGAGCAGGAAAGTCTGCCAATCTAACAGAAAATGTCAGAAAATTCTTGTGAAAGGCC

84801 TTCCCTGACACTCTCTTCTCTACAAAGGCTAGATTACAGTGATGGAAAGGACTATCAGTACACAGAAATCATGT

84881 AGGGATGTTGGTTGCAATTAGTGCAGTGAAGGGACTTCCAGAGTCTGGGATACGCATGTTTGAGAGTAGGGTAGAT

FIG. 6U

Heller Ehrman White & McAuliffe, LLP

Sheet 73 of 113

Title: Genes and Polymorphisms on Chromosome 10

Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*

Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

IDE\_1i.D+35143

84961 GTAACTTTGCTATACTGGAGATTGCTTAATAGACAAAAAAAAACTGAAACTGCTACTACTGCCAGGTTAATA  
85041 TACTGCCAGTATATAATTAAGTAAAGCaaaaACATATCTGGAACACTACAGGAAAATAACCCCTATGAGCACATCTG  
85121 CTTCTTACCTACAAGAACATAAAACAGACTGACTGTTCCTTAAAGACTGACAGCTAGATTTAAACGTAAAGAGG  
85201 GGAGAGAATAGGCATACAAATTATTTAGATAAGTTTTCTGTGTTAAATCTCTAGAGATGGAGAGGAAAAAAAT  
85281 CTAGTTGCTTCACTTAACTATTTCTCTCTGAACATACACTATAACTTCTTCAACTCTGCATAACATTGATAAAT  
85361 CAAAGGGGTTGTTGCTACTAAGACTGTCCCCTAGATCCCCTAGATCTTTTTCTCTCGCCCTCTTACAGTG  
85441 CTGATAGATCTCTTAAAGGAGAGATAACGGAATTAAAGATCAACATACACTAAATGTATAAATCTGGTTT  
85521 AAAATACATACATAGTACTTAAACACAGATAGTCTAATGGTCTCTCTTATAGTAAACATTCATTCTTCAAAAGC  
85601 ATAAATATAACTAAACATATTGGCTATGTTAGTGGTCACTGTGTTAAATCTCAAAAGCAACTTGAACACTGAAAAG  
85681 CCATTATTAACAAATTATTCAGCCAGGCACGGTCCGCGCTGTAACTCAGCACTTGGGAGGCTGAGACGGGCGG  
85761 ATCACAAAGGTAGGGACATCAAGATCATCTGGCAACATGGTGAACCCCTGCTCTACTAAAAAATACAAAATTAGATGG  
85841 GTGCGTGGCGTGCACCTGTAGTCCCAGCTACCTGGAGGCTGAGGCAACAGAACATGCTTCAACCCGGAGGCAAAGGTT  
85921 GCACTGAGCTGAGGTCAACGGCACTGCACCTCCAGCTCCGAGAGCTGAGATCTGTCTCAAAAGAAAAAAATTATT  
86001 TTCTTCTCATTAACCCATAAGCCACTAAATTCATGGCAAGAACAGTAAATCTGAGTGCAACTCTAAAAATG  
86081 GTGTTGCGGTAAATAGTAAATATTCTCAGGGTACAGGAATGGTCTATTAGACTCTAAAGAGGGTACAAGGAAC  
86161 CTCAGATAACAGTCTAGGCCAGGCACTGACTCACGCCCTGAACTTACCCACTTCGGGAGACTGAGCCGGGAGATCA  
86241 TCTGAGGTAGGGAGTCTGAGGCAAGGCCCTGGTCAATATTGTTAAACAGGAAATTAGCTGGA  
86321 CATGGTGGGGGTGCTTAATCCAGCTATTGCGAGACTGAGGCAGGAAATTGCTGAACCCGGAGGCGAGGCTG  
86401 CACTGAGCCAAGATCATGCCACTGCACCTCCAGCTGGCGCAACAGAGCAGACTCCGTCTAAAGAAAAAA  
86481 ACAGTTGTTAAAGACATTGGCAAAGGACAATCTGTTAGACTGCAGCAAATGCCCTCACTGTGACACAGTTGTT  
86561 CAAAACATTAATTGAGTCAATATAAAACTATTAAAATGAATCCAATTAGCAGGCCACATAACACTAAAT

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86641 AAGCCACAAGGCAGCCTCATTAAAGACACCCAGCAAGAAGGGCAGTGTAAACCGCAGTGTAAATAAGAACCTCCGTG  
86721 GTACCAAAGAGAATGCTGAACTTAACCCAGGAAGATCTACTCCAGGGAGAAAAGAGGTTGGCTTCTGGTGTAGTT

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86801 ATACTCAATTCTCTGTTGACTTAGTAACTGAAATGTAATA  
86881 ATGATGATGATGATGGTCTAAAACCTCTGTCCAAACCACAACACTGTGAGAGGGAGATGAAATATAGCTCACTTTG  
86961 AAGTATAAAATTAACCTACTATGTGGGAGGTTAAAACCTCTATATAAGATAACACCTCAACTATAACCTACACTCTGTA  
87041 CTTTTCTCAGGGTTCAACTCTCTTATCTGTTAAATTTTTAGACAAAAAAATTGTAACACAGAG  
87121 TAGGATGTAGGTAGACAGAACAGTCTCAGCCAGTAAAGACTATTGCAATATGATCAGAAATCCATCACAGGATGGATAT  
87201 AACTTATTGACGCTGAAGTTGTGCTGGATTAAATTCTGTATGGTTGAGATAAAAGAGATAGATTATTCTACAAG  
87281 TCACACATAAAATTAGTCCAACACTAAGTGTACAAAGGATCAAGAAAGCTAAAAATTCCAAGGTGGCAACTCCCT  
87361 ATCAAAATATCATGACTTGTAGGAAGTAAACAAAGGAAATTAGTCAACATTTCAACAAACCTATTCTCTGGC  
87441 AACCTATTCAACAAAGCTGGGTTTACCTTACCATATCTATAACACTTCCTACACAGGTTGATTCTCACCTTCT  
87521 GGAGAAGTGAAGACAATGACTGGGAACTCTTCTCTGTGATGATGAAATTCATCAACAGCTGCTGTCTGTATTAT  
87601 ACTCATAAAGATCACCTGTCTACTCACTTCAGATCATAGTCAAAAGCTCAAGAGTAATTATTATGCAAAATGTC  
87681 TCCAATAAAGCAAGCATACTGACAATTAGTGGCAGCTAGTGTAACTCAAATGCTTCCAGACATTATATTTTAA  
87761 CTGTTAAAGTAAATTAGGAGCAATAAAATTACTTCAAATTCTAGGACATTGTCTACACTCGAAACTTCATAAG  
87841 GCACAGAACTGCTTTTCACTGATAAACTGGAGAGATAATTAGTAAATACAAACATATAATTGTCATTCTGCTCA  
87921 GAATTAAAACAATGACTATAATCACAGAAGATAAAAGCTGGAAGAGCCACTAGATGTTATGCTCTTGCAGTTG  
88001 GGACTGGCTACACTGCTTCTGGAGCTGTTAAAACATGCAACCCACAGAGACACTGAGGCC  
88081 ATCTGCAATTAAACAGATCCCCAGGGCTAGATCCCTCATCTACACAGGAAACTGAAACCTCAAGGAGTTAA  
88161 TAAATCAGTGGCCAAGATCATACAACAAAATTATAATCAAACACTGCTTAACTCCAGCTGTGTCAGCCTCC  
88241 CTCCACATCCAAACACACTAAGGAAGTCTATTAGGTCCAGGCATCACACTATGCAAATGGTACAAAATGAGTAC  
88321 ACCAGAGCCCTGTTTGAAGGAACCTAGACTGATGAGTCACTATAAAACAGGTCAATTATCTTTTCTACT  
88401 TTTTGAGACAAGGTTCACTCTGCACCCAGGCACAAATTGGTCACTATGCCCTCAACATCCGGCTCAGGTGATCC

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88481 TCCCACCTCAGCCTCCCCAGTAGCTGGGACTATAGGCACTCACCACCGTACCCAGCTAATTTTTGTTTGTGTTATAGA  
88561 CAGGGTTTGCCTGCTGCTGGCAGACTGGTCTGCAACTCCCTGGCTCAAGCAATCCACCCGCTTGGCTCCAAAGTCT  
88641 GGGACTACAGGCATGGGCCACCGTGCCTAGTCTCTAGGTAAATTGTTGAGAGATGGGTTTGCCTGTCAGGC  
88721 TGTCCTTCAACACTCTGGCGCAAGAGACTCCGCGCTTCCCAAAGTGTGGATTACAGGCATGAGACACTACA  
88801 CCCAGCCCAGGTCAATTCTTAAAGTGTGGTACAAAATTCCCTGGGCACTATGGGAGTAACCTGTCTAGGAGGG  
88881 GGAGTAGAACCCAAATAAAAGGAACGGGACATCAACTCAAAGTAGAAGGGATTCTGTGAGCGAACCTGACAATG  
88961 AGGAAAAGCATGAGGAATACAGTGGAAAACAAGAAGCGTGGTCAATGAACACTACAACAGGAACCTCAGGTCAAGATC  
89041 ATGGACTAAGACATGTAAGGCTAAATTTCAGGTTGCAAAACAAATCCCAAATATAAGGTCAATTCCAAATTCCAC

FIG. 6V

**Heller Ehrman White & McAuliffe, LLP**  
Sheet 74 of 113  
**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**  
**Serial No. To be assigned**   **Applicants: Becker et al.**  
**Date of Filing: 6/18/03**   **Attny Dkt No. 37481-3308B**

89121 ACCAAGAGTAAATTTACTCTGCAAAGAACATCTTTATTCAAGGTGACCTTCAGTCCTTCATCTCTCTTAAAGTGT  
89201 CATGATCAATATACTAGTAGCAGATTGGAAATTTCAGTTTGCTTCTACTCACCTCATGGTCTCTCACAAATT  
89281 TAAAGTCAGACCTGATTTAGAAATAATGACCTATAACCTGAAGGTGAGTCAGCTTAATAGTGAATTACAAACCA  
89361 AAACCTCCCTCTGGAATCCATCCCACCCACTCCAAACCATAGCTGAAAGTCAGCTTACAGGCTTACACACTCATGCATGTG  
89441 GAGGAGGAGGCCAGAGAGAAAAGGCATGGAATCAAACACCACACAATACATTCCAGTCAGGCTTGCAGAAGGTAGAGGT  
89521 AAATAAGCAGAGGGTGCAGAGATACTGGGTGATGGCCAGGTGCAACATAATTAATGCTTAAGACCATATACCC  
89601 CAAGTACTATTAATAATCATGAACTTAAACAAACATGCTTACAGGAAACCTACCCAAACGCTTTCAGTTAG  
89681 GAACAGGTACACCTAACTTCATACACCGCTAGATCATAAAGTGGTACAAAATAAATCCTGTTAAACTTATTACCC  
89761 CTGATGTTTGCCTTGTGCCCCAGGAGAATATCAGCTATCGTAACCTCTATGTCCTGGCCCTCTGGAAAGGAGTTATGAT  
89841 CAACAAATAACCCCTTAAATGAAGTAGGGTGGTGCATTTAAAGAATCTAAAGTAGTATCATTCTAGAGAGAAGTGC  
89921 TTTTGCAATGTTGTTAGTGCATGCCTATCAATGCTTGTTCATCCAAAAGTGCAAGCTTAACACAGAACAC  
90001 TTTATAGAAACGTTATAAAAGTTAGCAAGTGAATAAACCTCTGTTAGACCTITGCCCCACAGAGGTAACTATAGAAA

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90081 GTTTCTTGTAGTTGGTACCAAGGGTTCACAAGTATCCTTCCACATGGAGTTTCAGGGCTTTAGGAAATGT  
90161 AAGATATAGGCCGGTGGCTGGTCAGCCTGTAATCCAAACACTTGGGAGGCCAGGTGGCAGATCACCTGAGGT  
90241 AAGACTTGAGACCAGCCTGGCCAACATGGTAAACCCCTCTACTGAAAATACAAAATTAGCAAGCATGATGGC  
90321 CATGCCTGTAATCCAGCTACTTGGGAGGCTGAGGAGAACATGCAACCCAGGAAGCGGAGGTGAGCTGACCA

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90401 AGATIGGCCACTGCACTCCAGCTGGGTGACAGAGCGACACCATCTCAAAAAAAAAAAAAAGATAGAATACCAT  
90481 TGTACAAATCTAACATCCTAACATCACTCTCATTTTTAAAGTGTCAAGGCTTATAACTGTTCATTTAACCTCC

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90561 TTCTCCTTAAGTGGTGGCTAACAGCTGTTGCACTCCTCTCAACTCCAAATGAGAAAACAAAGCTCAGTCAGT  
90641 GCTTGCATACTAAAGTATAACCAAAAGAAAAAGAAAAGATAAGTGGTTAAGTGAATGACTTGGCCAAAGGGCAAGCTGATT  
90721 GTGGTAAAGCTGAACTACAGAGAAAAGAGGAAGCGTGGGAAGGGGAGGGACAGAGGTGCTGAGGAAATCATACACT  
90801 CGTTTATTCAGCTCCAGCTCCAGTGTATCACCCTCACAGTCCTAGGCCCCATTCTTCCCTTACAATCCAAATAAC  
90881 AAAAGCCAGGAAACAAAATTAAACTAGGTCAAATAATGCTCAAGGAAAGTTTCAGTTTCACTCCITCTCTGC  
90961 ATATAAAACACAGGTAGTGGGAGTCTGCAATGCTTCAACTAACAGGAATCCCTAGCTAAGAACATAAC  
91041 TGCCAGGATTAATGATAACAGGTTAAAGCAAGAGAGTATATGTACAGAACTGACTCATGAAAGGAAACATAAA  
91121 ACAAGTACTACAGTACAGTGAATGGGTTAAAGTATACTATTTTAAAGTATACATTAAACCATATAATCAGAAAAA  
91201 AGAGAAGAAAATCATAATCATCTGGTAGCTGCAAGGAAAGTACTTAAATCAACACCATTGCACTGATTAAAGTC  
91281 AGCAAACGGATTAAATTATCCATTAAAAGAATATCAGAAACTATGGTAAATTATCATACTCAATGGTATAC  
91361 AATAGTTACATTACAATTAAATGAAACAATCTCCGCCCTCCCCACCAACACGATGCCACTAACACTTCTTCTATTTC  
91441 AACATTGATTGGTAGTCTAACAGTCCAAATAACCAAGAAAAGAACACACATAGAGATGGAAAGGAAAGAG  
91521 GAAAAAAATTAAACATGATTCTCAAGCAATATGATTATGTATAGAAAATCCCAAGAACATGACAACCTCCACTTCT

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91601 GGGTACGATATAAGCAGCTCATGGCAAACAAATTCAGCTCAACAACTAGAAAAGGCCATGATAAAATACAAAATCACAT  
91681 TTGCAAAGATGTTGAAAGTTGTGCAAGCAACAGGATTGGATAAAACTAGTTCCAGAAAGGTGAGCAACCTCTGAGGTGA  
91761 GCTGATAATCATCATTTCTTATCTGGGAATATCTGCTAATTCTGAGTCAGACTGAAGATCATGCTTGCCCTAAG

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91841 CAAAGGGACTGTACTGGCAGAAGAGGTATTATGAGGCTTCACTGGGCCATGAAAGTGGTGTGACAGATTAAAGTCCA  
91921 GGAGGTCCCAAATTGCAACTAACATTCCCAACAGAACAGATTCTGAGATACTACTATGTATTACAGAACATGGCTAAA

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92001 AGAAAAGAGGGCAAATCCAAGTGTAGAGAAGTTAACAAACTCTCACACACTGCTACAGACATGCAATTGGTATGGG  
92081 TACAACCATTTCAAAACTGGCACTATACACTAAAGCTCACAATGACCTAACATGCTAGTAACAGATAAAATACCC  
92161 AAATAAAATGCTTATATGTTCACTAGCAACACTATTCACAACTAGGCAACCCAGAAATGACAAATGACAAACAGTG  
92241 AAATGATAAAATTGTCATGCAACACAAATGAAAGTACAGCAACAAAAGGAAATATAGAACAAAGCACATAACAC  
92321 GAATCTCAATAATAGGGTTGAGTGAAGAGGCTAGACACAAAAGAGTAAATACTGTAACCTCCATTACAAAGCA  
92401 GAAGAGCAAGTAAAATCAAGCTATGCTTTCATCCCAGGATAGTCATTACCCCTGGACTGGAGTAGTGATTGGATTGG  
92481 AAAGGAGAATGAAGGGGCTTGGGGTCCAGGTCTGCTGGTATACAGGTACGTTCACTGGTAAAGGCAATTGCTTAA  
92561 GTTGAACACTGCCATTTCAATTAAAGTCTTAAAGATAGCTTCAAAATATCATAAAACACAGTAAATAGGAAAG  
92641 GAAGGGGAGATACATGATTACTGATATTACAAATATCAACCGCCAAAATCATCCTGGAAATAGTACCACTTGAATAC

**FIG. 6W**

**Heller Ehrman White & McAuliffe, LLP**

Sheet 75 of 113

# Title: Genes and Polymorphisms on Chromosome 10 Associated with Alzheimer's Disease and Other Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

IDE 1i.D+26522

93601 CTGGT'PCTAAAGATCAATTCAAATCACAGGCTGGAAAGAGTTATCGACCTGTAACTAATTCTCTCAAGATAGCCTTCTA  
93681 AAAAAAGCAAACCATAAATATCCCTATCAAAAATGGTTGGATCAGATGTATTCAGATTTCCGTGATTTAAATAT  
93761 TTCCATTACATTACCGATAGAGCATCTACTTTGAGCATCTAGTTGGCTCAAAAATTAGAATTTTGAGCATTCT  
93841 GATTTTCAATTGAAATTTCAGATTGGATCTCAACCTGTATTCTGTACAGACAGTTCAGTTCCACTCATATGTAC  
93921 AGAACATGATCTGCCAACCTCAGAGAATGCTGCCCTCAGAAACTTGACCTGTACTTGGCTTAGGTGTGATTCTTCACTG  
94001 TCTGCACTGATCTACTGACCACCTCCAGCCCGTGGTAATTACATACCCCTACCTTACCAAGATGACCTCTGCTC  
94081 CTGAGGCACTGGATACTAGGACTATCTGGCTCAACCCAGACTTCTGGCTCATCTAGCTGTGTTTTTTAAACAG  
94161 TTCTCCCATTGTCGCCAGGCTGAACCTGAACACCCAGGCCAAGCGATCCTCCCATCTCAGGCTCCCAAGTAGGTGTT  
94241 GTGCCATCGTGCCTCATCTGGCTCATCTAGTTTGTGAACTCAAGAGTCAGATGAGGCCAGGGCGATGCCATGCTG

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94321 TAATCCCGAGCACTTGGGGAGGC~~C~~**A**GGCAGGCGATCACCTGAGGTGGACTTCAGACCAGCCTGACCAACGTCGAGA  
94401 AACTCCATCTCACTAAA~~AA~~ACCA~~AA~~ATTAGCCAGGGTGTGTCAGACTCTCTTAATCCAGCTACTCCGGAGGCTG  
94481 CGAGGAGAATCGCTTAACCCAGGGAGGCGAGGAGTTGCGGTGAACCAAGAATTGTGCCACTGCACTCCAAACCTGGGCAACAA  
94561 GACCAAAACTCCATCTCAAAAAAAAAAAAAAAAGAGTCAGATGTAATACATGGCTTCAATTAA

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94641 TGACAGGGCACCTATGTCATCACACTCAGACAACTTTCAGAGTTCTCTGAAATAATGTTATATAACCT  
94721 CACCAAGGCATAGTTCCTGGTACACAGTAGTCATCCATGAATGTTAATTATAAAATCATCATCATTATTATG  
94801 GTCCCAGTGGCTAACGGTCAACATGGACACCCACCTCCATACCCACATGGTTAACCTACACATTTGTG  
94881 ATTCCAGATGTTATTGTCATCTGGAGGTCAAAAACATTCATAGTAGGTAGGTGATAATTAGGAATTACTTTAAGAC  
94961 TAATTAGGAAACCCAGGTAATAATTATCCTTTATAATTGCTATAGATGCGCACAGTGTATTAGTAAGTACTGTCATGG  
95041 GTGACTATTCCCACCTCACCACCCCTCGTGAGGACATATGGCAATGACTAGAGGCATTTTATTGTCACAACGTGAGGT  
95121 GCTAAATGGCACATAGTGTAGAGGCCAGGGATGCCACTAACGACACCTACACTGTATGGGATATTCCTCCAAAGAAAGAA  
95201 TTATATGATCCACACCTGTAATCCCAGCCTTGGGAGGCTGAGGGGGCGGATCACATGAGGTGAGGACTAGAAACCA  
95281 GCGTGGCCACACATATTGAAACACTGTCTACTAAAAATACAAAAATCAGCTGGCATGGTGGCAAACCTGTAATCCC  
95361 AGCTACTCGGGAGGCTGAGGCACAAGAATCAGTTGATCTGGGAGGCGGATGTGTGAGGCAACACTGCGCACTGCA  
95441 CTCAAGCCCTGGCAACAGATGAGACTGTGCTTTAACAAAAAAAGATGACATGACAAATATCATAGTGTAAGGAT  
95521 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
95601 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
95681 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
95761 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
95841 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
95921 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
96001 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
96081 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
96161 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
96241 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
96321 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
96401 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
96481 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
96561 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
96641 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
96721 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
96801 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
96881 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
96961 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
97041 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
97121 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
97201 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
97281 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
97361 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
97441 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
97521 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
97601 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
97681 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
97761 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
97841 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
97921 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
98001 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
98081 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
98161 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
98241 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
98321 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
98401 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
98481 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
98561 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
98641 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
98721 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
98801 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
98881 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
98961 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
99041 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
99121 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
99201 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
99281 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
99361 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
99441 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
99521 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
99601 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
99681 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
99761 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
99841 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG  
99921 TGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCGGATGGGAGGCG  
99981 GAAACGCTAGCTTATAGTGTGATTATTACCCCCAAAAATAATGGATGAAATCATGACCAATTATCCTACACTG

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95601 AAATCCAAGAGACAGCCTCATTAAGTACAGAACGCTTCTATAATTAACTCCCATCTATGTATCTACATATCTCTCAAT  
95681 CAATCAATCAATCAACATCTAACGGCACAAAAGATTACATAAAGAGAGGAGAAAAACTGATAATGAAAGAGAAAGA  
95761 GAGAAGGAAACCTTTAACGGAACCTTGTCTAGACTGAAGGAATCTACTACGCTAACGTTAGGGGCTTAAGCTTAGAGAACG  
95841 AAAGCCAGTATGTCAGAACAGATGCTTACTGAATACTCAGTACGTTCTGGACACATATACTTGTGTTAGGAAATAAT  
95921 CTATTATATATTATACATATATAATATTACATAAACCCTTATATAGATCTATTAGTCCTATTCTTACTGGATG  
96001 GGGAAATTAAAGCTCAGAAAAGTTATTGGTTGGAACACATAGTATAAAATAGAACAGACTAGGATTCAACCCAAAGTC  
96081 TTAGACACAAAAATGCCATTGCTGTTAACACTCCACCAAGTTAAAAGTTCATCTCAACACTTTGGGACCGCCGGACAG  
96161 CAGATCACCTGGAGCTCAGGGTCAAGACCCGCTGAACACATGGAGAACCCGCTCTCCACTAAAATAACAAATTAG  
96241 CTGGCATGGTGGCGCAATTGCAATCCCAGCTACTGGGAGGCTGAGGCAGGAGAATCTTGTGAACTTGAGAAGTGGAG

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96321 GGT CGC AGCA AGCT GAG AT CAG CCAT TGC AC GTG CAG CTGG GCAT CTCA AAAA ACT AA GCT AAT AAAAAA  
96401 TA AAC TGA CCT ATATAA AAAA AAAAAA TTTT CTC CAA AGG ACACA GTG AAA AGG CAC CTG GG AGT GG GAAA AAT A'AT  
96481 CTCA TAA GGG GTTA AT TCC CAG AAT AT TAA ATCT GCA CAA CAAA ACA CAAA AAAAA TTCT CAAT GCG CCA AGG CT TAA

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Title: Genes and Polymorphisms on Chromosome 10

Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned Applicants: Becker et al.

Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

96561 AAAGCCACCTTCTCCAAAAGAAGATATAACAAATGCCAATAGCATATAAAAGATGCTCACACTCACTAATCATTAGAAAA  
96641 GTACAAATCAAACAAACTAAAGAATGCTACCCTTCATACCAATTAGGATAATTTTAAAACACTGTGAATACAAAAAAAT  
96721 TAGCCGGGTGTGGTGGCAGGTGCGCTGTAGTCCCAGCCAATCGGGAGGCTGAGACAGGAGAATGGTGTGAACCCAGGAGG  
96801 GGAGCTTGCACTGAGCAGAGATAGGCCACTACACTCCAGCCTGGCAACAGAGCTAGACTCCCGTCTCAAAAAAAAAAAA  
96881 AAAAAAAAAAAAAATCTGGCCAACATGGTGAACCCCGTTCTACTAAAAAATATAAAATTTAGCTGGCGTGGCATGC  
96961 GCCTGTACTCCAGCTACTCAGGAGGCTGAGGAGGAGAATGGCATGAACCTGGAAGGAGACCTTGCACTGAGCCGAGA  
97041 TCGTGCCTTCACTCCAGCTGGCAACAGCAGCAGACTCGGTCTCAAAAAAAATATAAAATTTAAATAGAATAAAAT  
97121 AATAAGTCAGGTGAGGATGTAGAAAACCTGGAACCTGTGCACACTTGCTAGTGGGAATACAAAATGGTACAGCAGTATG  
97201 GAAAATGTATGCCACTTCTCAGAAAATTAGAAATAGAAATTACCATGTGATCTAACAAATTCCACCTCTGGATACATATA

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97281 CAAAAGAAATGAAACCAAAGACTCAAACAGATATTGTACAGCTATGTTCATAGCAGCAGTACTGCCAACAGCCAAAAGG  
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97361 TGGAAGTCAGCCACTGTCCACTGATGGATGAATCAGTAACAAAACGTAGTTTATACAATAAAATTATTCAAGCCTTAA  
97441 AAAGGAAAAAAATCTGGCAGCTACATGCTACCATATGAACTAACAGAACATACTAAATGAAATACCTGGCTGGGTGAGTGG  
97521 CTCTATGCCCTGCACTTCCAGCCTTGGGAGGCTAAGGCAGGTGATCAGGAGGCTAAGGAGATCGAGACCATCCTGGCCAA  
97601 CACGGTGAACCCCCATCTCTACTAAAAATACAAAATTAGCTCCGACTCGTGGTCCACACCTATAGTCCCAGATACTCAG  
97681 GAGGCTGAGGCAGGAGAATTGCTTGAACCCGGAGGCAGAGGTTGCACTTAGGCAAGACTGCACCACTGCACACTCCAGCCT  
97761 GGTGACAGAGAACACTCCATCTCAAAAAAAAAAAAAAGAAAATCAGCTAACACAAAAGGACAAATACTA  
97841 CACAACCTCCACTTATATAAGGTACCTAGACTAGCTCAATTTCACAGACAGAAAACAGACAGGTGGTTGCAAGGGTCTGAAG  
97921 GGAGGGGAAATGGTGGAGTTATTATTTGATCGGTACAGAGTTCACTTGGTGGAGATGAAAAGTTCTAGAGATGGATGA  
98001 TGGTGTGGTTACACAACACCTGGATGTATTACTGCCACGGAAACAATACACTTAAAATGCTCAAATGGGCCAGGTG  
98081 CAGTGGCTCATCTTGTATACCCAGTACTTTGGAAAGCCAAGGTAAGAAGATCACTTGAGGCCAGGAGTTGAGACCACT  
98161 CTGGGCAACATAGTCAGACCCCCATCTACACACACACACAAAAGGTCAAAATGATAAATTATGTTACATATTCTTAT

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98241 CACAATAATAAAACCAACCATGATGGGGGGTGGGTGAGAAACAAATCAATATTCTAACAAACTAACCTAACAACTATAA  
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98321 ATGAGTAACATAATCACATTGAAGGGAGTGTAAAAGAAAAGAACCTTAACATATGGAAAGCTGGATTGTACTGGATACAAATA  
98401 AAGCCTAACAGAAAAAGAACATACATGCAAATATTGTGACCTATTTAAAAATGTTCTCACAGGTGAGCTAGCAATTATG  
98481 AAACTATGTGTACACTAGAATTGAGGAATAAGAAAGTAAATTGTAGAAATGAAATCCAGTCTCTCATTGTTGGAAAA  
98561 AGATGTTATAATAAGAAATGGGAGAAGGCTACAAATTGTGGTACTAAGTTGGGAATCAAAGTATCAATACAAACTTATAT

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98641 TTGTTATATACAAAAGACATAGAAATATAAAACGTTGATATCTGGCTGTCCACCAAGGGCACTAGACTGGCCGCC  
98721 ACTAGAACGAAATGACACCTCAGCAACAAATGAGCACATCTAGTGGCCAGATCTGGTCTGCGAAGATTATTTCTGCTCAG

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98801 CTGAGTTGGCTCACGGCTGTAATCCACGGACTTTGGGAGGCTGAGGCCAGCAGTCACCTCAGGTGAGGTTGAGACC  
98881 AGTGTGGCTAACATGGTGAACCTCCATCTACTAAAAATACAAAATTACCCAGGCATGGCACATGCCCTGTAATCC  
98961 CAGCTACCTGGAGGCTGAGCAGGAGAATTGCTTGAACCTGGGAGGCTAGAGATTGCAATGAGCCGAGATCACACCATG  
99041 ACTCTCAGGCTGGTCAAGAGTAAGACTCAGTCCTCAAAAAAATTTTCAATAAAAGGAACCTAA  
99121 GTGATTTGATTCAGGGCTAGGGCAAGAAAATATGAGTCTAGAGACAGAAGTAAACAAATACTCTAAAGGATGGGCTT  
99201 ATTCAAAATACACAGGAGCCTAAAGAAGAAACTCTAACGGCTAACATTTGAGCAACAAAACAAAGACG  
99281 ATAGTACTGAAATTTCAGCCGTAAGTAAAGATAATGTATGTTCATAGCAATATAAAATAAGAAAAAGAAAAGCAG  
99361 GCTGGGCAATGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGAAGGCGGATCACCTGAAGTCAGGACTCT  
99441 AGACCAAGGTTGGCCAACATGGTGAATCTCTCTATTAAAATACAAAATTAGCCAGGTGCGACACGCCGTG

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99521 AGTCCCAGGTAACAGGAAGCTGAGGCCAGGAGAATTGCTTGAACCTGGGAGGCAAGGGTGCAGTGAGCCAAGACTATG  
99601 CACTGCACCTCCAGCCTGGCAACAGAGTGGAGACTCTGTCTCAAAAAAAAAAAAAGAAATACCAATCTTCTCAATTCT  
99681 TCCAAAAAGAAGAGAGAAACCTCCAAACTCTACATTGAAATCAGTATTACCCCTGATACTAAAGCCAGACAAGGACAT  
99761 TACAAGAAAAGAAAATACAGGCCAATACCTGTGATGAATAGACAAACATTAGCCAGACTAAGAAAAAGAGAGAC

FIG. 6Y

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Title: Genes and Polymorphisms on Chromosome 10

Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned Applicants: Becker *et al.*

Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

99841 AACACAAAATCAGAGATGAAAAGGAGACATTACAACGTACCGAAAAATTCAAAAGATCATTAGTGGCTATTATGAG  
 99921 CAACTATATGCCAATAAATGAAAAATCTAGAAAAATGGATAATTCTTAGACACATACAACCTACCAAGATTGAACCA  
 100001 TGAAGAAATCCAAAACCTGAACACACCAACAAGTAACAAGATTGAAGGCCATAATAAAAGTCTCTAGCAAAGAAAAGCC  
 100081 CAGGACCACATGGCTTCTCTGCTGAATTCTACTAAATTTAAAGAACATAACCAATTCTACTCAAATTATTCCAAAAAAA  
 100161 TAGACAAGGAAGGAATAACTCCTAAACTCATCTGATGAGGCCACTATTACCCGTACCAAAACTACACAAAGACATCA  
 100241 AAAAGGAAAATCACAGGCAATATCACTGATGAAATTGATGCAAATACCTCAACAAAATACTAGCAAACCAAAATCA

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100321 ACAGCACGTTAAAAGGATCATTCACCTTGATCAAGTGAGATTATCCCGCAATGCAAGGATGGTPCAACATCAACACAC  
 100401 TTATTGCAAATCAATAATGCTGATATACCAACATAACAGAAUTGAAGGGGAAACAACCCACACAACTCATCTCAATAGATG  
 100481 CAGAAAAAAGGCTAAGTATAGTGGCTCATGCCCTCATCCCAGCATTTGGGAGGCTGGGTGGGAGGATGGCTTGAATT  
 100561 CAAGAGCTCAAGACTAGCTGGCCAACACAGCAAGATAACCTCTCATACAAAACAGCTGGCATGATGGCACATGCCCTAT  
 100641 ATTCCTCAAGTACTCAGGGATGCTAAGCTAGAAAGCTCCCTTGAGGCCAAAGAGTTAGCTCTGCACTGAGCCATGATTGCA  
 100721 CCACTGCACTCCAATCAGGCTGACAAGAATGCAACAGTGTCTAAAAAAAAAAAGATGCCAGGTGAGCTGACCAA  
 100801 CATGCCCTGTAATCCCAACACTTTGAGAGGCCAAGGCCAGGCGATCACTTGAAAGTCAAGGAGITTCGAGACCCAGTCTGACCA  
 100881 CATGGGAAAACCCCGTCTACTAAAAATACAAAATTAGCCAAGCGTGGTGGCACATGCCCTGTAATCCCAGTACTCGGG

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100961 AGGCTGAGGCAGAAGAATTGCTTGAACCTGGGAGGAGGCTTGCACTGAGGCCAAGATCTCACCACGTACTCTGCAC  
 101041 CTAGCCCTGAGCAACAAAGCAAAATTCCATCTCAAAAAAAAAACAAACAGAAAATACCTCTTACAGATAGCTTCAGA  
 101121 TGCCACATGCAGGAGCTGTGAAAAAAAGGGGGAAAATAGAGCAGAAAATAATTGACAAACAGCCTTCAG

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101201 GTAAAAACTCTCAACAAATTAGTATACAAGGAATACCTCCATTGTGACTTCAGTACAATAAGGCCATGGAAGACAAG  
 101281 CAAACAAUTGAACGTATTGAGCTGAAAGCCTTCCCTATAATCAGGAACAAAGCATGACAAGGATGCCAC  
 101361 TCTCATTCTCTATTCATCAATGATAATTCTGATCTGATGTTGATGATGATGATAGAAAATCACACTAAAGAGGCCCG  
 101441 GCACAGTGGCTCACGCCCTGAAATCCCAACTTGGGAGGCTGAGATGGGGGATCACAGAGGCCAGGAGTTCAAGACCA  
 101521 GCCTGACCAACATGGTAAATCCCATCTCTACTAAAATACAGAAATTAGCCAGGCTGTCGGCACATACCTGTAATCCCA  
 101601 GCTACTTGGGAAACTGAGGCAGCAGAATCACTTGAAACCCAGGAGGCCAGCTGGGTGAGCCGTGATAGTGCCTATTGCA  
 101681 CTCCAGCTGGCAACAGAAAAAAACTTGTCTCAAAAAAAAAAAAGAAAATCACACTAAAGTATCCAATGGTC  
 101761 AAATTACTGTAATTGGTTCAGGAAAAAAATTATTTGCACTATATTGTCATACTAAAACCTTTGACTATGAGATTGTTCA  
 101841 AAAATACAGTATATCTTTCATGACAAAAATGCTGATCAAACACTAGGAATAAAAGAGAATTCTCAACCTGAAAAAGGG  
 101921 ACTCTATGAATAAGCTACTGCTAGCATCGTACTTAATCGTGCACAGATAATTGTTTACCAATTAGATCAAGAAGATGACA  
 102001 AGGATTTCCACTCTGCCACTTCTATTCAACACTGTCGAAAGTCTAAACAGACCAATTAGCAAGAAAATGAATAA  
 102081 ACCGGCTCAAAATTAGAAAGAAAAACTAGGCCGGCGGGCTGCTTAATCCCGACTTGGGAGGGAG  
 102161 CGGGGTGGATCACGGAGTCAGGAGATCGAGACCATCTGGCTAACAGTGAACCCCCCTCTACTAAAATACAAAAA  
 102241 ATTAGCGGGCGCGGTGGGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAA  
 102321 GCAGAGCTGCACTGAGCCGAGATTGACCAACTGCACTGCCAGTCCCGCCTGGGTGACAGAGCGAGACTCCGTCTCAA

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102401 AAAAAGAAAAAGAAAAAGAAAAAGTAAATTAGCTCCAATTGCAAGAGACATGATCTTGAATATAAAATATCA  
 102481 ATTGTATTCCATACACTGACAAATGAAACAAACTAAAAAATAGAAAACAATTAAATAATAGCATCAAAATAAAAATACTGG  
 102561 GTGGGCACACTGGCTCATGCCCTGAAACCTGCTCTACAAAAAATACGAAAATCAGGCTGGGTGGATGACCTGAGGTCAAGGACTTCGA  
 102641 GACCAGCTAACCAACATGGTGAACCCCTGCTCTACAAAAAATACGAAAATCAGGCTGGGTGGCTGAGCTGCCACCCCTAT  
 102721 AATCCCAGCCTTGGGAGGCCAACGGCAGGTATCACCTGAGGTCAAGGACTTCGAGACCCAGGCCAACATGGTGAAA  
 102801 CCCTGCTCTACTAAAACCTACAAAAATTAGCCGGCGCTGCTGAGGTGACTTCCAGTAACTCCAGCTACTCCGGAGGCTGAGG  
 102881 CAGGAGAATCGCTTGGGCCAGGAGGCCAGGAGGTTGCACTGAGCTGAGATGCCACTGCACTCCACCTGGGCAACAGA  
 102961 GCGAAAGTCTGTCCTCAAAACAAAAACAAAATTAGCTGAAACACGGTGGCTGAGGCCAGTCTGAAATCCAGCTACTAGGGAGG  
 103041 CTGAGACAGGAGAATTGCTTGAACACTGGGAGGTTGCACTGAGGCCAGTCTGCACTCCACCTGGCT  
 103121 ACAGAGTGAAGACTCCGCTCAAAAAAAACTTATGCAATAAATTAAAGAAATGTAACAAACTTAAACTAAACTT  
 103201 TAAATGAGAAAGACTCCCATGTTGATGGAAGACAGTATTGTTAAAGATAACAGTAATCCCAAATAGATTAACATCC

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103281 CACCTAACGCTCCTTTTGTGAGAAAATTGACAAATTGATCTAAAACCTGTTGGAAATGCAGAGGCCAGAATGGTCA  
 103361 AAAAGCTTGAGAAAGAAGAACAAAGCTGGAAGACTCAAACACTGCCACTTCAAAACAAATTGTAACAAATAGTGTGG  
 103441 TACTGGCATCAGGATAAACATACAGATAATTGGCCAGGCACGGCGCTCACACCTGTAATCCAGCACTTGGGAGGCC  
 103521 GAGGGGGGTGGATCACGGAGTCAGGAGATCGAGAACACCTGGATAACATGGTGCACCCCATCTACTAAAATACAA  
 103601 AAAATTAGCCAGGCTGGTGGCGGCCGTGAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATGGTGTGAACCTGA

FIG. 6Z

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker et al.  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

103681 GAGGCCGAGCTTGCAGTAAGCCAAGATAGTCCACTGCAGTCCAGCCTGGAGAAAGACTCCATCTAAAAAACCATA  
103761 CAGATTAATGGAACAGAACAGAAAGCTCAGAGTTAACCCCTCACCTTTGATCAATTATTTGAAAGGATGATGGCC  
103841 GGGCATGTTGAAATCCCAGCACTTGGGAGGCCAAGGTAGGCAGATCACTGATGCCAGGAGTTGAGACTAGCCTGGCG

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103921 AAGATGGTAAACACCATTCTACTAAAAATACAAAAATTATCTGGGCATGGTGGCCAACACCTGAGTCCCAGCTACTC  
104001 AGGAGGCTGAGGCATAAGAAATTCGTTAACCTGGAGGCGAGGTTGCAACTGCACTGCACTACAACCTGGGCAACAGACCA  
104081 AGATTCACCTCAAAAAAAAAAAAAAAAAGGATGCAAACAAATTCAATGAGGAGACTAGTCTTCAACAAATGGT  
104161 ACTGGATATCCACATGTTAAAGATGAAAGTTGGACTCTCACCTCACCATACATAAAAAACTAATTCAAAATAGATCAA  
104241 GACTTCCATGTAACAGCTAAATAAACAAATACAACCTTTTGTAGAGATAGTGTGTTGCTCTGTTGCCAGGCTGG  
104321 AGTCCAAGGCGTGTGATCTGACGTCACCCGCAACCTCCGGGTTCAAGGCACTCTCAGTCTCCTGAGTA  
104401 GCTGGGATACAGCTGCTGACTACGGCAGGCTAAGCTTGTGTTAGTACAGACAGGGTTTCAACATGTTAGCC  
104481 AGGCTGCTCAAACCTCCGTGACCTCAGGTGATCCGCCACCTCGGCCACCTCCAGGCTTACAGGTGTGAGGCC  
104561 CATGCCTGGCAATAACAAATCTTAAAGAAAATCTAAATCTTTGTGACCTTGGGATGGCAGTGGCTCTTAGATAT  
104641 GACATCAAAGGACAAACCAACAGTTTGTAAAGGACAAATTAGACTTCAACAAATTTAACAACCTTCTCCTCAAAGAACAC  
104721 CATCAAGAAAAGTGAAAAGACAACCTATAGAATGGCATAAAATTTGTAAATCATATATCTGATAAGGGACTTGATAGA  
104801 GAATATATTTTGTATTTGTATTTTGAAAGTGGAGTTCACTCTCGTACCCAGGCTGGAGTGCAGTGGCACGATCT  
104881 TGCCCTCACTGCAACCTCTGCCCTCAAGGGTCAAGCATTCTGCCCTCAGTCTCCGAGTAGCTGGGTTACAGCGTG  
104961 TACACCATGCCCGCTAATTTTGTATTTAGTAGAGATGGGTTTCACCTTGTTGGTCAGCTGGCTCTGAACCTCT  
105041 GACTGCAGGTGATCCACCTGCCCTCATCCTCCCAAGTGGCTGGGATTACAGGCAACAGGCCCGGCCCTAGAGAAT  
105121 ATATTTTAAACTCTACACATTAAATAAAAAAACCAAAATTAACAAATAGAAAAGGATCTGAGTAGACATT  
105201 TCTCTAAAGAAGATATATAATGGCAAGAAGCATATGAAAATATACACTGTCATCAGGAAATGAAAGTCAAATT  
105281 CCAATGAGACACCACTTCATACCCACCAGGATGGCTTATAACAAAGTACATAGCAAGTGTGTCAGGATATAGAGA  
105361 AATTGGAATTTACACACTGCTGGGAAATGCAAATAGTGGCTGCTTGTGAAAACACCTGGTAGTTCTGAAAAA  
105441 GGTTAAACACAAGGTTAGCATATGACCTAGCAATTCCGCTCTATGCATATCCCCAAGGAAACGAAAATAAGTGTCA  
105521 CATGAAAATGTACAGAATGCCAAAGCAGTATTATCATTATACTCAAGACTGGAAATAATCAAATGTCCATCAA  
105601 CTAATGAATGGATAAAACAAATCTGGTCTATCCATACAATGCAACTATGAGTACTAAAAGGAATGAAGTACTGACAC  
105681 ATACCTCAATATGAATGAACTTTGAAAACATTATGTTAAGTGAAGGAGGCCAGACACAAAAGACCATATTGTTGATGTCA

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105761 TTTGTATGAATGGTCAGAACAGGCAATCCATAGAAAGAAGATGAGTGGCTGCCATGGCTCAGGGAAAGAGTGGAAATA  
105841 GAGTGTAACTGCCAAGGGTATAATGTTCTTTTGAGGTGACAAAATGTTAAATGATTGCTGATGGTGCACA  
105921 ACTCTGCAAATACACTAAACCCATGAATGGTATATTTTTTTTGAGACAGGGTACTGTCACCCAG

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106001 GCTGGAGTGAATGGTGAATCATGGCTCATGGCAGCTTCAAGCAATCTCCCGCTCAGCCCTG  
106081 GAATAGTGTGAGATTACTGCCAGTGCCTCCACACTCGGCTAATTTTTTGTAGAGATAGGGTCCCACTATGTTG  
106161 CACAGGGTAGTTCCAACCTGGACTCAAGCAATCCTCCGCTCAGTCTGGAGCTCAGGATTACTTATTTAAAAAA  
106241 CTCAATTGTTAAGGGAAAGACTTAAACTCTAGTGTCTTCATGTTCTCTGCCCCCTTGTGTTTATGACAAATT  
106321 CCTAATTGTTCAATTAAATATTCTAGAAAGATGCTATGTTGCCATATAATATCGATAATAGTTGGCTGGTGA

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rs1999763

106401 CTGTAAGTACAAATAACATATTCACTTCCCTAAAGTCTGTTAGTTAACCGTGTATCTGACTGCCAGATAGTCTGT  
106481 CTATTGGCTCTGGGAACGGTCTTCCAGTGTCAACGTTCCATCTGCTTATTATGTCAGCTGACCAACTGACCA

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rs1999764

106561 TCCTAATGTAGCCATCTGCTCCAAAAGGTTCTGGCTCTCCCTACCTGTTACATTACACTCATCGTCTTGTACTTA  
106641 CTGTACACTGTTGCTCTTCTCCCTCTCTTGTGAGCAACTCAAGAGATGCTCAAAGGTGAGAGAAAGTGA  
106721 CTGGGCATGGTGGCTCACACCTGTAATCCAGCACTTGGGAGGCCCTAGCACGTGGATCACCTGAGGACAGGACTCTAA  
106801 GACCGAGCTGTTCAACAAGGGAAACCTGCTCTACTAAAAATACAAAATTAGCCAGGAGTGGTGGCGCACCTGTA  
106881 GTCTCAGCTACTCAGGAGGCTGAGGCCAGAAGAATCACTGAAACCCAGGAGGCCAGGTTGAGTGCACCCAAGATGGAGCC

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106961 ACTGCACTCCAGCCTAGGGACAGAGCGAGACTCCGCTCTAAAAAAAAAAAGATTGAGAGAAAGTGA  
107041 TTATGCTCACAGAGCTCAGGCTGATAGCTCCACTTCTAGCTAGCAAGCTAACATGCTCTCCACACCCA

FIG. 6AA

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker et al.  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

107121 CCACCTTCACTCCATCCTCACCTGGGTTCTAGACAATAAGGCGAACTCAGGCCGGTGTGGCTCAGGCTGGCGTGG  
107201 TGGCTCACACCTGTAACTCCAGAACACTTGGGAGGCCAGGTGGATGGATCACCTGAGGTCAAGGAGTTGAGACCAGCTTG  
107281 GCCAACATGGTGAACACCTGTCTTCTACTAAAAAAATACAAACATTAGCGGCCACGGTGGCTGGCCCTGTAATCCCAG  
107361 CTATTCAAGGAGGCTGAGGCAGGAGAACACTCACTCAACCTGGGAGGCCAGGTGGCTAGTAAGCCGAGATGGCACCACTGCAC  
107441 TCCAGCTGGGCAACAAAGACTGAACACTCGCTAAAGGAAATAACTAAATAAAATAAGTAAAGGCCAAACTCA  
107521 GCAGTACAGCTGGGCAACAAAGACTGAACACTCGCTAAAGGAAAGACTTCCCTAAGGAGCTGTGGGACTTTCTGTCACCTCCTATAGTTGCCA  
107601 TAAGGATCAAATAAGCATGTGTAAATCTTGTCAAACCTTAAATGAGGCCAAAGGGTAGTCTGCAAGGATCAAATAAGA  
107681 TGATGTAAGCTGGCGTGGCAGCTCACGCCGTAAATCCAGCCCTTGGGAGGCCAGGCCGATCACCTGAGGTCA  
107761 CGAGTTCAAGACCACATCCTGGCTAACATGGTGAACACCCATCTAATAAAACACAAAAAAATTAGCTGGC

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107841 GTGGTGGTGGGTGCGCTGTAGTCCACGCTACTTGGGAGGCTGAGGCAGGAGAACACGGGAGGCCAGCTTG  
107921 AGTGAGCGGAGATCGCCCACTGCACTCCAGGCTGGGTGACAGAGCGAGACTCCGTACCCAAAAAAATAAAATAAAAT  
108001 AAATGATGTGTAAATCTTCGTAACCTTAAATGAGGCCAAAGGGTAGTCTGCTGATTACACATTTCTGACTTTCTCGA  
108081 GCAATTACATGTGTATTTGTTCTATTTTATTAAACAAAACCTCCAGTATGCTGAAACACTAAAGACTAAACTT  
108161 CCTCCAATCACTGTATAGAACGGATCACAAATAATGTTACAAGGCCAAAAGTAATGTAATAAGCAAAGCAGGCT  
108241 GTAAGAAGGAATGCGATGCCCTCTGAAAGAACAAATCTCCCTAGCTCAAGCTAATTGCTGCCAGCAGGAATGTGGCC  
108321 CACTGTTACAGATTATCCCTTTCCCAAAGGAACGTGAACACTCTCAGGATTCTAAGTGTGATTCCATTAAAGAA

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108401 AACAACTGCCAAACATATCCACATGCCACATCCACGCTACTGGTCTACAGTGACCTCATTTATAGTCGGTCATACTCTC  
108481 TAAAATAAAAGCAACATCAACTGAGGAGTTAGTGTATATGTAAGGCAAAAGGAAAGAACATATGCACTGTAGAAGG  
108561 CAACGTTCAAGAACCAAAACTTGGTAGGATTAATAAGGATATTGAGCTACTTAGCTGGTGGCTAGGAAAAGACTCA  
108641 TGCAAACATACCAAACTCAAGATAAAAGAACAAACCAAGTGTCAAGTCAAGTCAACTTCCACTACATCACACTGGCTCC  
108721 CAAATGGATAGACTAGAGGAGATAAGGCAATTTCGATGGCAGTGGCTAAAGTAGTCTGGAGTACAAACCTAG  
108801 AACAGGTGTCAATCTTACTGATATCTTCCTGAGCAGCAAGCTGAAGGATCAAGAATATTTCACCCGGACCAATGTTATCC  
108881 AACACTCCCAGCCTATATTGGCCATCAGCAGAGCATAACAGAAACACAGAGTAGGCCAACATGGGAGGGAGAACATT  
108961 CACCAACTCAAGAAAGAAAAAGAACAGGTGACTAATGTTGTTCTATTATTCTGTTAAAGCAAA

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109041 ATTTCAAAATTCTCTCCATAAAAAGAAAAGCAGGCTGGGTGTGGCTCACGCTGTAACTCCAGCACTTGGGAG  
109121 GCCAAGGGGGGGATCTGAACTCAGGAGTTCAAGGACAGCCCTGCTCAACATGCTGAAACCCCTGGCTGGCACAGTG  
109201 GCTCACGCCCTGTAACTCCAGCACTTGGGAGGCCAGGTGGACAGATCACTGAACTCAGGCTGGAGACCCAGCCTGGC  
109281 CAACATGGTAAACACAGTCTACTAAAGTACAAAATAGCCGGCGTGGCAGGCCGCTGTAATCCAGCTACT

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109361 TGGGAGGCTGAGACAGGAGAATTGCTTGAACCCGGGACGGGAGGTTGCACTGAGCCAAGACCACATCATTGCACTCCAG

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109441 CCTGGGCAACAAGACAAAACCTCCACCTGGGGGGAAAAAAACCATGGTGAACCCCCATCTACTAAAAATACAAAAA  
109521 TTAGCTGGGTGTGGTGCATGCCGTAGTCTCAGCTCTTAGGAGGCTGAAGCAGGAGAACACTTGAATCTGGATG  
109601 CGGAGTTGCACTGAGCCAAGATGCACTTGCACCTCCAGCCTGGCTACAGACTCTGCTCTCAAAAACAAAAAA  
109681 AAAAGGCTGGCATGGTGGCTAAACCTGTAATCCGACTTTGGGAGGCTGAGGCCAGATAACAAAGTCAA  
109761 GAGATTGAGACCCATCTGCCAACATGGTAAACCCATCTACTAAAAATATAAAATTTAGCTGGGTGTGGTCCACG  
109841 CGCCTGTAGTCCAACTACTTGGAGGCTGAGGAGAACATGCTCAACCTGGGGCAGGGGAGGGTAGCTGGAGC  
109921 CGGGATCACCCACTGCACTCTAGCTGGCAGTGGAGAACACTCCGCTCTCAAAAAAAAGGAAAGGAAAGGAAAG  
110001 AAAGCAAATCTTAAAGTCAATTAAAATCTTAAAGTCAATTAAAGGGAGGGGAAAGGCAATATGCTTT  
110081 TTTGTCAAAGTCTCACAAGGATATCCCTGAAAGCTTGTGCTTTAACCATATGCTAGATAACCTGAAAATAACTTAAT  
110161 TCCCAAGTACTTACAATACTAGAATTCTAGAGCTAGATGGAGGGAGTGGAAAGCCATTAGGTCTCAGGTCATCTCTCACTTTGT  
110241 AGTCTTATTCTACAAGGCTGAGATTCAACTAGGAGCCAGACTATACCTTCTGTTGGAATCACAGAAGATCTAC  
110321 AAAAGTTATCTCCATGTAGTCTTACATGAAAGCTGTCATGAAACACTACTCTGCTCAATACAAACTACTCTGCTCA  
110401 AAAGAAAAAAATTGAGAACAGGAAACAGATCATTAGAGGAGAGAACAGGAAAGGGAAATTCCAGGCAACCACTCTGAG  
110481 CAAGCCTGGAGAAAACAGTCAACTACAGCAAGAAGGAAAAGTGTCTGAGGATAGTCTCCAGGAGAAAATATGG  
110561 AACCAATAGATCATCTAATAGATTGATCATATAAGAAACTGACTAGGCCGGCAAGGTAACTTACACCTGTAATCCCA  
110641 GCACTTACGGAGGCCAGAGGCCGGCAGATCAGTGGAGGCTAGGAGATTGGAGACCAAGCCCTGGCAACATGACGAAACCCCTGT  
110721 CTCTACTAAAAACACAAAAATTAGTGGCATGGTGGCACGCCGTAGTCCCACTCAGGAGGCTGAGGCC

FIG. 6AB

Heller Ehrman White & McAuliffe, LLP

Sheet 80 of 113

Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

IDE\_1i.D+9270

110801 GAGAATGCTTGAACACCGAGAGACACGGGT'TGCAGTAAGCCGAGACTGCCACTGCATTCAGCCTGGCGATAAACCGA  
110881 GACTGTCTAAAAAAAAAAAAAAACTGAAACTGTACTAAATGTCATAGGACCATA  
110961 AGATCAAGTGGGAAGAAATCGAAAATATGTAAACAGTTGGGTGTATGGCTACACCTGTAATCCTGACTTGGGAGGC  
111041 TAAGCAGAACGATCACTTGAGGCCAGGAGTTCAAGACCAACACTGCAACACAGTAAGACCCATCTCTAAAAAAATAAA

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111121 ATAGCTGGGCATAACAAACAGAAAATTCTAAAATTAAAGAGATCAAGAAAATAACAGTAGCCAGGTGTGCTGGCTCA  
111201 TGCCTGTATCCCAGACTTGGGAGGCTGAGG'TGGTTGATCACCTGAGGTCAAGGAGTTGAGACCCAGCTGCCAACAA  
111281 TGGTGAACCCCCATCTACTAAAAATATAAAAAATTAGCCGGCTGGTAGCGGGCCCTGTAATCCAGCTACTCAGG  
111361 ACGATGAAACAGAAATGCTTGAACCCAGGAGGGCTCAGTGGGTCAGATCTGCCACTGCACCTCCAGCTGGGT  
111441 GACAGAGCGAGACTCTGTCAGAAAAAAAGAAAAAAATTAGCTGGGCAATGGTGGGTGGCACCTGTAATTG  
111521 CAGCTACTCAGGAGGCTAAGGAATGAGAATTGCTTGAACCTCAGGAGGAGTGGCAGTGGAGCACCAACTGCCACTCCAGC  
111601 CTGGGCAACACAGCGAGACTCCACTCTAAAAAAAGAAAAGAAAAGAAAAGAAAGAAATGTTATTGTTCTTCTCA  
111681 AGACCTATTCTCCCCAAATCTCTTGCTAGAACACTCAGACTATTTCACCTCCGATATCATCTTCCACCTCTCTAACT  
111761 CCCAACCTCTCCAACATATGTTTCTTCTTACCTAAATGTGAGGAT'GTCAGGCTCCCCCTCCCCCACCGCAGCTAA  
111841 ACATAGATTATTTTCCATATCCATGTCGTCTCAACTCTTCAGATTAGGAATCAGCTCAGGCC

IDE\_1i.D+8168

111921 CTTACCAAGTCCAGTCATATTCAAATGCTTCCGTGAGATCTCCCTGGCTATCCAGTAATCACTCAGACTCAAATAT  
112001 CATCAACTACCATGTATATTCTTCTAAAAAATCTCCCTGTTTAACTCTCCCATCTCTACTAAAGATATCGTCTACCT  
112081 CTAGGAAGAAGACAATATAATGGCAACCCCTGAGGTTCTTGAGTGAAGCCAGTTGAATTCATATCTCGCTAAGCCACTT  
112161 ACTAGCTGTATCTGAGCAAGTTAACCTCTTGAGCTTCAATCTCTATCTGAAAGAAAAAAAGACTACCA  
112241 CCACCACTCTCCACATAATTACCGTGGCAATTAAACAAGACAACATATGTCAGGCTCAGGCTCACGCCATAAT  
112321 CCCAGTACTTGGGAGGCAAGGTAGGTCAGTGTGAACCCAGGAGTTAAGACCAAGTCTGGGCAACATGACCAAATC  
112401 CTGTCCTACAAAAAAACTCCAAAAATTAGCCAGGTAGGTTATGTCAGGCTACTAGCC  
112481 AGCTACCCAGGAAACGGGAGTACTGAGATGCCAGGAGAACCTGAGGCCAGAGAGGTCAAGGCTGAGCTGACCCCT

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IDE\_1i.D+7513 IDE\_1i.D+7509

112561 GATCAGCCACTGCACTCCACCTAGGAGTGACAGAGTCAGACTCTATCTCTCTCTCTCTCACACACAC  
112641 ACACACACACACACACATAGGCAAGCTCTAATAAAATGCAAACTGGAGGTTATGATGATAAGTGAATACGCC  
112721 AGGCACAGAATGACAGACATCACATGTTACTTATGTTGGGATCTAAACATCAAACATGAAATTCTAGGAGATAG  
112801 AGACTAGAAGGATGGTTACTAGGCGTGGGAAGGGTACTGGCTGGTAGGGCAGGTGGGATGTTAATGGTACCAA  
112881 GAAAAAAAGACCTAGGATTGATAGCACACAGGCTGACTATAATCAATAATTGACATTTCACATTCTAAAATAACTAA  
112961 AAGAGTTAATTGGATTGTTGTAACAAAGAATAAAATGCTTGAGGGATGACTACCCCCCAGCCAAAAAGCATAACATA  
113041 CAATAAGCATTCAATAATATTAGCTACTAAATCTTTATGTTAACATGTCAGCAGCAGCAAGAGCGTTACACCTGAA  
113121 TCCACTTAGCCCCAGCACAGGTCAAGACTCTGTTAGGCTCTGGATCATCTCTATCCCTATCCCTTAAGCAAACAAATAAGAAA  
113201 CCCAGTAGTAGGTCACTATTCAATGTCGTCTGATCTTCAATTGACTAGTCCCTGAGCTACCAATCACAAC  
113281 AGATTTCATTCCCTGGGTATTAAGGACCGCTCAGTCTGTCCACTACCCCTACGGGACCTGAGGGTAACAGCCAGCCCA

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113361 AAAGTGCCTACAAGACTGTGCCACTGCTGTACCAAGCAGTGGTCGTTCTTGGTATGCCCTTGAAAACCTGCCAC  
113441 CTGCCAGGCAGGACAAACATCTCACCTCTACCTGACTCTTCCCGAGCTGGCTCCCCGACAAGAGTTTCCCTACCC  
113521 GGTGGCCCTCTTCTTCTGACTCTAACAGTCACTCAGCCTCAAGACCTCAGGCTTCTCTGACTCTCCACATCGTCCCTACAT  
113601 CAATCAATAACTAAACCTGCTGAATCTCTTCTGACATGCTCTCTGAGACTCTCTTCTGACTCTTCTGCTATTGACTAC  
113681 CTTCTTATCCCTCATGCTCTGCCCTGGCTTCAAAACAGTGTCTACAAAAACAGCCAGATAATTAGCCAAAATAC  
113761 AGCTTTCTATGTCAGTGAATTGCTCAAAACAGCATCTGAGGTTCTCTATATCCAATAAGCAAACAAATTTCACCTTCTTGT  
113841 CTGATATTGTAATTCCCTACTTTGAAACCTTGTCTAATACCATCTCTTCTATCTAAATAATTCTCTTCTGTTGT  
113921 CTGCTCTATGCCCTGATACAGCACTTTGGGAGGAGAGGGCAGGAGGAGATGCTTGAAGCCAGGAGTAGAGATCAGTAT  
114001 GGACAACATACCAAGATCCTGCCCTACAAAATTGTTAAAATTAGCCAGGCATCGTGGCACAAGTCTGAGTCTAGCTA  
114081 CAGGAGGCTGAGGTGAGAGGATCACTTGAGGCCAGGAGTTCTGAGCTGAGTTTGTATCGTGCACAGCAG  
114161 CCTGGGTGACAGTGAGATCTGCTCCTTCAACAAAAATTCTTCTCAACTCTCCCTTCTGTTCATCCAATTCAAAATT  
114241 TCCTTCAAAAGACTCTGTTCAATCTCTGAAAGCTCTGCCATTCTCTACTGAGCAGGGTGTCTCAGCA  
114321 GAGGGAAAACAATGCAATGATGAGGTAAGAGCAAGTCAAGCAAGTAGACCAAGTGTGACTCACATTGTTGACTAGGAA

FIG. 6AC

**Heller Ehrman White & McAuliffe, LLP**  
Sheet 81 of 113  
**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**  
Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attn: Dkt No. 37481-3308B

IDE\_1i.D+5696

114401 GTTTATTACTCAAACCTGAAATTGAGGGAGAGTCTGGCTAGAGAAATACATTGGGAGTTGTCAAGAATATAGATTAG

IDE\_1i.D+5658

114481 GCCTATCTTACAGAATTTCGAATGATCAATATGATACCGGGCATCTTGCGACTGCCATTAGCAGTGAACCTCAT  
114561 ACATCTTTATGAAATGATCTTAAATGAAAGTTAAATGAAAAGAAAAGTAACTCAGAAAAGTTGCAATAAAGGTCAAAGCTA  
114641 TAAAACCTAAAATAAAACAATAAAACATAATACAGCTTAAGAAGTATTCAAACTGATAAAACTATAAGAAAAGACTA  
114721 AGGAAATTGTATTCCAAATATAGAATAATACAGCCGGGACCGCTGGCCACGCCTGAATATCCCAGCCTTTGGAGGCTG  
114801 AGGTGGGTGGATCACCTGAGGTCAAGGGTTAACGACCAGCCTGGCAACATGGTAAACCCCCATGCTACTAAAAATACA  
114881 AAAATTAGCCGGGCGCTGGTGCACGCCCTGTAGTCAGTCAGCTGGGAGGCTGAGGCAGGAGAACGCCCTGAAGCTGG  
114961 GAGATGGAGGTGCACTGAGCCGAGATTCAGCCACTGTACTCTAGCCTGGCAACAGGGCAGACTCTTCTCAAAAAAA  
115041 AAAATAATAATAATAATAACAAATACTTTACAGGGGAGGACAGACTTAAATTGGACAGCTTGAGCACAGCAGGTT  
115121 CAAAGTTGCTGGAAATGTTGTCTCTAAAGTAGTGGTACACAGGTGTTTTTCTCTTGTCTTATACTCTGGCA  
115201 TGTCAATAATTAAATAAGCAGACTAAAAAAATAAGGGCAATATAAACATCAAATAGTGTTCACAGTGTCTTAAAA  
115281 ATTATAAGTGTGAGAAAAAAAGGAGACTAAATGTCACCTGTTAAAGGCTTAAAGGAGTACTTGTACTAT  
115361 AAAGAAAAAGACAGAAAAGGGCATCTCGGAAATTGGGAATGAATAGGTCTGAAAGAGACAGCAAAATTGGTAAGCTGAC

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115441 TCGAGAAAGACTTGGCTAAAAGTTGGCTAACGCCAACAGAATGCTTACATGCTGGCTAACAGTAACTTG  
115521 TCTTGAAATAGCACAGAACACTGGTGTATTTAGGCGAGAACAGCTTGGAAAAGTGGTTATTAAATCTGTGAT  
115601 GATAAGAACTAACCTAGTGGAGAACAGAGCTGGAAAAGTCAGTCTAAACCTGGTCAAGGTTAGGCTAACAT  
115681 CTAAAGATGTCAAGAAGATCATCGGCCTAACCTAGGAGTGTGAGGGTCAAGATCCTCAAAGAAACTTCAAGGATC  
115761 TTTAGGATGAAAGACTCAGGAGGATTGGCTTGTGGAAATAGGCAATGAGGGAAAAGATTCAAAGATTTCAAGCTAAC  
115841 TGAAAACCTCATTTCAACTAAACTGAAAAATGATAAACACATAGCCAAACTAAGGACTCTACAGAAAAAAATTGCTT  
115921 TGAAAAAACGACCATTAACTCAATTAAAGTTATGCTGAGTAAATATGCTACTGACTACCTACTATGTCAGGAGATGTGATG  
116001 CCTTCCTTCAGAAAGCACATTGTTGACTCTACTTTAAAGATTTCCTGGAGCCGAGTCAGCTGAATCCGAGC  
116081 ACTTTGGGAGGCCAAGGTGGCAGATCACCTGAAGTCAGGAGTTCAAGACCAGCTGGCCATCATGGTGAATCCAGCT  
116161 CTAACAAAAAAACAAAAAAATTAGTTGTGTGTCAGGACACACCTGTAAATCCCAGACTCTGGAGGCTGAGGCGAACAGAAGA  
116241 TCACCTGAACCCCCGGAGGTGGAAGTTCAGTGACCCAAAGATCTGTCACCTCCAGGCTGGCAACACAGACTCAG  
116321 TCTCAAAAAAAAAAAACTTACATTAACTTAGGCAAAAGAACATCAAACAGTCTTTGAGAAGAATAAAATATTGTTG  
116401 GAGTCCCACTTTAAAGAATCAGTATGGTGTATAAAACTAAGGTTGTTTCAAAATTAAATTGAAAGAACACA  
116481 AACACATTTAAAGTGGAGGTCTGTAGAAAGTCAGGAGTAAAGCAGTTACTCTGAGGAC  
116561 ACATTTATCCTTATCTTTCACATTACATACACTACTGGCACACTCTCTCATGACTAACAGATTCATTAATGCT

TDE\_1.i\_D+3459

TDE 1i D+2914

117201 TAACTTCTTTTTTAAGACACAGTCTCGCTCAGTCACCCAGGCTGGAGTCCAGTGGCACGATCTCAGCTCACTGCACC  
117281 TCCGGCCTCTGGGTTCAAGCGATTCTCCTGCCCTCAGGCCCTCCGGGTTCAAGCGATTCTCCTGCCCTCAGCTCATGACTAG  
117361 CTGGGGATTACAAGGCCAACACCCACCCGGCTAATTTTTTGTGATTTTTTAGTAGAGATGGGGTTTACCCATGTTGCC  
117441 AGGGCTGGCTTGAACCTCTGACCTCAGTCCCCCCCACCTGGCTGCAAATGTTGGGATTACACCGCATGAGCCA

IDE 1i.D+2540

117521 CCCCCACCTGGCTCAACCTAACCTTTCAAGACAGGGCAGAACTGTGGAATTAGCTTAAAGAAACTTCAGGGGTACCCCTGTT  
117601 CTTTTTACATTAATGGACCTTTCTGATTGACAGTAGTTTAAAGCTTAAAGTGATCTGATGACCTTCAACTGACATACCA  
117681 CTGTTCTCAAGCTTAATGGACAGCGGGAAATCGAAAGCTAGGGCTGCCTGCAATGAGATGACTGTATGCCCGAGGTGCTCA

FIG. 6AD

Heller Ehrman White & McAuliffe, LLP

Sheet 82 of 113

Title: Genes and Polymorphisms on Chromosome 10

Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned Applicants: Becker et al.

Date of Filing: 6/18/03 Attay Dkt No. 37481-3308B

IDE\_1i.D+2338

rs2421945

117761 AGTTGTTGCCAGGGAAATGGGCTATTATCTCAGGTGCCCAAGTAGTTAGATAATTCCACAGTCCAAGTTATAAAAT  
117841 ACACCTGAACACAGAACAGGAGGTTACTCTGTAATGATCTTACATAATGCTTAAAGACCACCTGTCTCAA  
117921 GAGGTTAGACCAGAAAATGAATGCCAAATACCAGCAGAGGCAGTACTTGTGTTGCAAATACATAACAGTTAAGAGCTC  
118001 AGGCTCCGATGCCAGATAGACATGGTTAAATCCAGCTTCCAGCAATAGCTGTGTTGCTATCTCTGTTAAGACATT  
118081 CTTCCGACTATGTACAGTAGGGCTGATTGCAATTCTTAAGATGAGAAATATGTGGTAGCTTCAGATGTTAGTGTCTT

IDE\_1i.D+1917

118161 CCTAAAACATATGCCCTAATCCCTTGTTGACCTGTATTCTCAAAGCCTCACTCACTGATTTAGGGTAGAGCTT  
118241 TCTAGCTGGCTCATCTCATTCATTGATCTCAAATTCTCATTTGAGAAAACATATCTTAAACTCTGG  
118321 ATGGTCGACCGGACTTTATAACTACAGAGAAAATGTAATTAACTAGAACATACAAACACTTAGTTACAAACCTTA  
118401 AAATTGGTGTCTTCTTAAACATACAAATGCTATATGCTGGAGACAGTATGGAGACAGCTAGCCTAGCCTATCAGTAA  
118481 TGAATTAGAACAAAAGCAGACTGACACAAAAGAGGACAAAAGAGGAGCTGCTGTCTTACCCACTGTTACCACTGTTCTCAA  
118561 GTTCAGGGTCTTITGCACTTATAGGAGATTGTGATGTGAGTGGAAACAGAGGAGAACAGTTCCATAGAGTCTTAA  
118641 TTTGTATAGCTTATCTTAGTCCCCACTGCTACCATCCTAACAGGCAGTAAAGACTAAGTCCAACAGTTCTCTG  
118721 CCTTACGGACTCTCTCACTTCCGACATCTGCACACAGCCACAAACTACTTTCTAACACCCCCAGTTCCATCAGATAA  
118801 CTTTCCAGCTCAAAACACTTAAATGCTCCACTACTACGCAATTGGAAAATCCAAACTAAATTCAGACCCAGGCCA  
118881 GCATTACCCACTGTATAATACAGGACTTGTGCTCTAATTACCCAAAGGAAATTCTATAAAGCTTCAACCCAGACTA  
118961 ATCGGCTCACTGCTCCCCAACACAAACTGCCCCTATCTAGGCTGGATACGCCACGCCACTCCAAACCTT  
119041 TCTGCCATTCCTTCAAGGCCAGCTTACCCCCCCTCTGGCCCCAACACACTACCCATCTTGTGACCCCTC  
119121 ATCAACACACCCCTGTAGCTATCTCAATTCCCGTCCATCCAACTCCGCTCAATCAACTCAAAGTTCTTGGAAAGGCAG  
119201 ACACATACCTTACATAGGGTCCAGCACAGTGGCTGCACTTAGTACGTGTCGGTATTACTGATTAAACCCAGCAGGG  
119281 GTTCAAATAACGTTCTAGGGAGGGCAAGATAATACTGCTATCTCTTCCATTGCTAGTAAAAGTATTGAGCTTCAC  
119361 TACAAGCCTGAAAACCCCTAGCGTACCGCAGATCAACCGTGCAGTGGAGAGGGCAGCAGCCGGATGGCAAAAAACCTGTG  
119441 TCCTAATCTGGTGTGCAACATCTCGCAGTTGTGAGGCTACAGGCTATCTCGGAGCTCCGGTTGTCTCCGACGT  
119521 AAAACAGGGAGCTGCTGTAGAGGATCCGGAGGTATCTTGGCTCTAAATGTCCCCCGATAGGAAACCCACACTCGT  
119601 CTTCCAAGGGGGAGGGCAGGCAAACCTTTTCCAGCGCGGCATTCCACACGGTCTGGAAACTCAGTGGGGAGAAA  
119681 AGGGCAGGGCTGAGGGCAAGGTGAGAAGCGGTCCCCCGAAGTCGCGGGATTCTTACCCACGGCTGGAGTCCGGCTC  
119761 AGGTTCCCGCCCCCTCACAGCGGACTCCGGGAGGTGACCGGGCAGTGGCCGGCTCCAGGTGAGGCGGGTGACTCTGTCC  
119841 GCCCTGCGCCCCCCCCACTAGTGGCACACGCCCTGGGCCCCGGCTCACAGCCAAAGGAGC  
119921 TCCCCGACTCTGGACCAAGGCCCTCTGGCTCCCGCTGGCAGCCGCTTCCGGCCCTGGGCGGCCAGCGCCAGT

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120001 ACGGGCCCCAGGCCGGGGACGGCGGGCTGAGGGCAGCGGTGGCGCTTTAAGTGTGAATCACCACTTGCAACCC  
120081 GAGCGCCAAACCGCTGTGACCCACGGGGCCGAGGGCCGGCTCATTCGCTTACCCACACAGGCCTCCGGAGGC

Exon 1

120161 GGCAAGCGGGCGCCGAGGACTGAGCGGAAGGTGCTGGCAGTGCAGGCTAGCCGGTACCGCATCG

CDS start

Exon 1

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120241 CCAGCGCAGTCGCCGGATCACCGCAAACGCTTCTGCTTCCGAGCCGGCCCTGGCACTGCGCATGCTCTAGCC

Exon 1

120321 GCGGGCGCCGCGCGGTCTCCGGGAGCTGCGGAGAGCTAGCTGCTCCGGTTTGCCTGGAGCCGGATGCCAGGACGC

IDE\_us-122

120401 AGGGCAGGACGGTGAAGACCGCGGACAGCCGAGGCCGAGCTGGAGGGACACGGGTTTGGCCGGGGCGCTTT  
120481 AGGAGCCAGCACCCAGACTTCTCCAGCGGGGGAGGGTCCCAGCTAGATCCACCGGCCACTTGTGAGGGTGGCGACGT  
120561 GTGCTGTACTGTGAGGGGGCGAGGGCCGCTCATAAATCCAGCTGGAGGCCACAGGGCTATGTTTCTGAGGCACCCCA  
120641 CTGACTAGCGTGGCGGGACCTGCAAGGTCTGGAAACAGGTTCTGTGGCGGGCCCTACAGTAAATGAATCCGGGCC  
120721 GCGCCGGGCCCCGGCTCCCTCTAGAGCGGGTGGGAGCTGGACCCGAAGGCACAGATGCGCTGGAGACAAGGCTC  
120801 GAGTGCAGCGTGGGAAATTCAGACGCAAGGGTCAAGCTAGAGAGGCCAGGACCCAGGGGACGTTCCATCTGGG  
120881 GAAGTTAGCAGCTCTTAAGAGGAAGGTGCGGATGGACGGCGCCAGCAAACAGGCTCAAATCCAGAGTAGAA

FIG. 6AE

Heller Ehrman White & McAuliffe, LLP

Sheet 83 of 113

Title: *Genes and Polymorphisms on Chromosome 10 Associated with Alzheimer's Disease and Other Neurodegenerative Diseases*

Serial No. To be assigned Applicants: Becker *et al.*

Date of Filing: 6/18/03 Atty Dkt No. 37481-3308B

120961 ACTACTACTCTTGTAGTAGCTCCGACTAGGAATACTACTAAATGTCAGTCGGCTTCAGTGGTTACTTTAAACAAAGAA  
121041 TTTTCTCCCCAGTGGCTTATGGGCCTTCACCGAACACTAATAGTTGTTATGAATCTAACTTCCATAATACC  
121121 TTATGGAGCTTTAAGGAAGAATGCTATTAGGGATGGTACTTGCCAGCTTAAGTACTTTAGGTTCTGATTGACAGA

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121201 CGATCAAGACTGCAGCCAAAACGGTGTCTTAGTCCAAGTATTGCTTTAAATGGGAATTCACTAGGGGTTCTTAAT  
121281 CAAGTTGATGCTTTATCGAAGACGTACCCACGATCTTTAAACAGTGCCTTACACCTAAAGGAAACCTTTGGATGAAA  
121361 ACAGGTTAAAATTATGGCAAGCCTCTAGTGGTTGCAAGTGCATGGTTAAAGAACCTTTAAATTACAGTCCTAAT  
121441 GCAGAGTACTCAATCACCTTGAAGCAGCCTCTGAGACTTTAATGCAGCCTTCTGAATACATTATGCTCCATTAAAT  
121521 GGAATCTATAATGGCGGGTAGATTGAGACTTGGAGGGCTGAAACATATAACATTGGGGGACCTTTGAGACAT  
121601 AAAATACAATTATAAAATACAATTAGAACATAGAAGATTACTATAGAGAAAAATACATCACAAACTCGAGAC  
121681 TTGGAGATTAGTACCCCTTTTTTCTGAGATCTCTTCTAGGACTATTAGAAATGCTACATAAAATGCTCCAGAT  
121761 GGCGGGCTGGTGTGCTGATGCCCTGTAATCCCAGCATTGGAGGGCAACGGGGCGATAACGAGATCAGGAGTTGCA  
121841 GACCAGCTGACCAAATGGTAGGAAACCCCTGCTACTAAATTAGCCAGGCTGGCATGCGTCTGTA  
121921 ATCCCAGCTACTGAGGAGCTGAGGAGAAATCACTTGACCCCTGGAGGGAGGTTGCACTGAGCAAGATCAGGCC  
122001 ACTGCACTCCAGCCTGGCAACAAATGAGACTCTATGCTCAAAAAAAAAAATGCTCCAGACAAACAATGGCTT  
122081 CCCTCTACAACCTCCAGTTGGACCTGCTCAAGTGAAGCTTAAACTTCATAGCTTCAATGATAAATTTC  
122161 CCTCTGGTTGGAGTAGATGCTCTGGATAAGAAAGATTAATATAAGTCTCATAACTATCATCTCAATAAGAGGAG

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122241 GTGGATGAAAAGAAAAGTACAATTTGAGACTCTCTGTGCTCTGGCATGTCATGGCTCCCTCATTAGTCATCATG  
122321 ACCACCCCTGTAATGGATATTCTCACCTACAGAGATGAGGAAGCTGTCAGAGAGAGGTTGAGTAATGCAAC  
122401 AATTGGACAAAAGACTGGAGTTGAAATTGAACTGGCTTACAGACATGGCTTACAGCAGTGGCAACCTGATTT  
122481 TGACTTGACAAATTGTTGAAATGCGCTTACAGACATGGCTTACAGCAGTGGCAACCTGATTT  
122561 GACAAAATGCTGCTGAGGAGATTACCTCTAGCTGTGGAAATACAGCAGTGGCAACCTGATTT  
122641 GAAGGAACAGGTGGTCAGGAAGGGCTCTTGGAGGAAGTGCACATTGAGCACACCCAGAATGAGAAAAGTAGGAA  
122721 ATGTGAAGGTCTAGGGTGTAAATCTTCCACTCTCACTCAAACAAGTATAAGGTGTAACACCCTAGACAACTTTTT  
122801 CTTTTCTTTCTTTTTTTGATGGACTCGCTCTGACCAGGCTGGAGTGCAGTGGCCGATCTCGCTCACTG  
122881 CAACCTCACCTCCGGATTCTGATGTTCTCTGGCTCAGGCTCCAGAGTAGCTGGACTACTGGCGCACGCCACCATG  
122961 CCCAGCTAATTGTTGATTTAGTAGAGACGGGATTCACTCATGCTGGCAGATGCTCTGATCTCTGACCTCATG  
123041 TCCCCCTACCTCAGCTCCAAAGCGCTGGATTAGGCGTGGCATGCCGGCTACAACCTTTTAAAGCA

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123121 GAAAAAGTAATGTGCTGAAGTCATCTTGCTTAGATAGGAAACTAGACACATATTCAAATATAAGTATTCTGATATA  
123201 CTGGAACCCAAATATTAGTGTGTTATCTGCTGTAAGTTCCATTAGCCCAGATAGAATAGAGTTACCATAGAGCT  
123281 GAGTCAGGAGTTCTAAATGATTGAAAGAAAAAACTTAAAGGAAGGCCAGTGGTGCAGACAGTTGGCTTATTCTCAA

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123361 TTGGTAATGTTGAGAAAATAATCTTTGTCCCCCCAGATGTTAGCAGAGGAAAGAAAAGGAATTTTTTTTTT  
123441 TTTGACCGAAGTTTGTCTCTGTCACCCAGGCTGGAGCTGCAATGGCATGATCTTGGCTACGCCAACCTCCCTCCA  
123521 GGTCAAGCAAATCTCTGCCTCAGCCTCCAAAGTAGCTGGATTACAGGCATGCCAACACCCAGCTAATTGTTG  
123601 GTTTTGTAGACAGACGGCTTCTCATGTTGACGGCTGCTCTCAACTCCAAACCTCACTGAGCTGACCCGCCCTGCTTGG  
123681 CTCCCAAAGTGGCTGGATTACAGGGTGGAGCCGGCAGGCGGGCAAGAATTTTTTTTTTAAATAGGGCG  
123761 GGTGCACTGGCTCACACCTGTAATCCAGCTCTGGGAGCTGAGGCACTGAGGTGAGGAGTTGAGAC  
123841 CAGCCTGGCTAACATGGTAAACCCCTGCTCTACAGAAAATTAAAAAATTAGCTGGCATGATGGTGTGCACTGTGTC  
123921 CCAGCTTGGGAGCTGGCTGAGGACAAGAATGCTGGACCTGGAGGCAAGGGTGCAGCTGAGAGATCTGCCACT  
124001 GCACTCCGGCTAGGTTACAGACTGGAGACCCCTGCTCGAAAATAAAATCTTGGACTGGGACAGTGGCACAGTGAC  
124081 TCACGCCCTGTAATCCACACTTGGAGGCCAAACTGGCGGATCACCTGAGGTTGGGAGTTGAGACCCGCTGACCA  
124161 ACAGGGAGAAAACCGCTCTACTAAAATACAAAATTAAGTGGACATGGTGGCGATGCCGTAAATCCCAGCACTCGGA  
124241 AGGCTGAGGCGGGAGAATGCTGAAACCCGGAGGCGGAGCTGGCTGAGCCAGATGAACCCATTGCACTCCAGCTG

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124321 GACAACGACTGAAACTCCATCTAAAAAAATGTCCTTGAACTAATCTAGCTATTGTTATATATTCAAATCAA  
124401 AATCTGAATTCTGAATCCACCAACTCAAATTGTCACAAATAGCTAAAGAGAAAGCATACCTAGGTAGTTAAACAAA

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124481 GGAAAATTAAAGTTAGGGCCAGACCGGGTGGCTTATGCCGTAAATCCAAACATTGGGAGGCAGAGGTGAGAGGGTGC

FIG. 6AF

**Heller Ehrman White & McAuliffe, LLP**  
 Sheet 84 of 113  
**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**  
**Serial No. To be assigned      Applicants: Becker *et al.***  
**Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B**

124561 TTGAGCTCAGGAGTTCAAGACCAGCTTGGCTACATAGTCAGGCCTGTCTATAAAAAAATAAAACAAATTAGGCA

IDE\_us-4398

124641 GCAGGTCAGTAGCTCATGCCGTGTAATGCTAGCACTTGGGAGGCCAACGAGGAGTCACTTGAGCTTAGGACTTCGA  
 124721 GACCGCTGGCAACATAGACCTCATCTCTATTAAAATAAGATAAAATCAAACAAAACAAAAATTAGCCGGCAT  
 124801 GGTGGTGCATGCCCTGGCTCCAACACTCTGGATGTTGAGGTGTGAGGATGGCTTGAGCCAGGAGGTGAAAGTTGAG  
 124881 TGAGCCAAATCATGCCACTGCACCTCCAGCCTGGCAAGACTGCCAGCCCTGTCTCAAACAACAATTCTTACAAGACCT

124961 TAAACATTTTCATAAACATCATTATTGTATTATTTTAAGGCTCTTGAGCAATGCCAATTCTTAATGAACAGC

IDE\_us-4819

125041 TGAGGAACATTGGTTTAGCCATCAATTCTCTCAAAAGAAAATGTCTCAAAAGACATTTTTTTAATTGAG

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125121 ACAGAGTCTCACTCTCACCCAGGCTGGACTGCAATGGTGGCTCTGGCTCACTGCAACCTCTACCTCCCAGGTTCAA  
 125201 GCGATTCTCCTGCCCTCACGGCTCTGAGTAGCTAGGATTATAGGCACCTGCCAACCGCTCAGCTAATTGTTGATTTTTA  
 125281 GTAGAGACAGGGTTTACCATGTTGGCAGGCTGGCTCAAACCTCTGACTTCAGGTGATCCACCCACCCAGCAGCCTCCCG  
 125361 AAGTCTGGGGTACAGGATGAGCCACTGCACCCGGCTTTTATCTTTTAAACCGGGTCTCCCTGTGGCCAG  
 125441 GCTGGAGTGCAGTGGAGTGTACTCAGCTCACTGCAACCTCTGCCCTCCGGGTTCAAGCAGTTCTCCTGCCCTCAGCCTCCC  
 125521 AAATGAGCTAGGACTACAGGATGAGCCACCCGGCTGCTGATTTTTTGATTTTTACTGTGAGACTGGTTTACCATG  
 125601 TTGGCCAAGCTGGCTCGAACCCCTGACCTCAGGTGATCTCCACCTCCGGCTCCAAACTCCTGGGATTACAGGATG  
 125681 AAAACACCAGCAGCCCTTATTGTTATGCTCTTAAATTCTCAATTATCTCTCACTAACATGAAATACCAACAGC  
 125761 ATAGAAACCTGGTTGCTCTTTCTGGTGTATCTCAACATGAAAGCAAGCCCTGGGCCATAATATTGTTGAATGC  
 125841 ATAATCAAGAGTTCTTAACATG'GTGTGAAATACGAATTATGATCTGCCATAAAAGTAACCTAAATTACCTTT  
 125921 AAGGACTAGCAAAGATGAGTCATTAGGAAAACCTCAACAAACAAATTATAATTAACTTATCTATAAAACATT  
 126001 TAAAATCATGTTCTTTAGGTTTATTACCATAGTATTGACTTAAACAAATTATCATTTAAACATT  
 126081 GGGAGGGCAGCGTGGCTACGCCGTAACTCCACACTGGGGAGGCTGGCGGATGGCTCACCTAACGTCAGGAGTT  
 126161 CGAGACCCAGCTGGCAATGTGATGAAACCCGACTCTAAACAAAAAAATAGGAAATTAGCCGGGTACACTGCCAGGGTT  
 126241 TGTAGTCCCAGTACCCAGGAGGCTGGAGGAGAATTGCTGAACCCAGGAGGAGGTGCACTGAGCCAAAGATCA  
 126321 TGCCATTGCACTCCACCGTGGCAACAGAGCAGAAACTCTGCTCTATTAAAAAAAGAAAAAAAGCTGGCA  
 126401 TGGTGGCTCACGCCGTAACTCCACACTTGGAGGCCAGGTAGGTGGATCACCTGAGGTCGAGAGTTGGAGACCAAGC  
 126481 CTGACCAACATGGAGAACCCCGTCTATTAAACACAAATTAGGCCAGGTGGCTGCATGCCCTAATCCAGCTAC

IDE\_us-6274

126561 TCAGGAGGCTGAGGCCAGGAGAATTGCTTAAACCTGGGAGGTGGAGACTGCACTGAGCTGAGATTGCCCATGGCACTCCA  
 126641 GCGTGAACAAAGAGCAGAAACTCTGCTCTCAAAAGAAAAAAAGAAAAACTTTGTATTATGAAACAAG  
 126721 TAGTCAAACATAAACAAATAAAAGAAAATAGTATAACTATTCCAGGAAATATGATTTAGAATTCTATAGCCAAATA  
 126801 ATGTCACATAGATTGTGATTAGATAAAACATTGAAAATACGATTAGAATTCCACAGCCTAACATGTCC  
 126881 ATAATAATACCCACCGCATCCATTCTGACCTCCATAATTACCAACTCTGCTCATGCCAAATATTGTTCTATCTTTC  
 126961 CTCCAACCTCCCTCAACCTCCACTAAATTCTGACCCATATTAACTGACCAAAATACGGGCATCATATTAAATATTTCATCTCAGTATT  
 127041 CAGTATGTCACAGGACTTAAAGAAAATCACACAGGACTAACATCTTAAACATAATTAGATAATTATTAAATATAAT

IDE\_us-6872

127121 CAAATATGTAAGTCAGTCTCCCACCTTCTGACTGTTCCCACCTTCTGATGCCCTAAATGTTCTPTTTCAAAATGGG  
 127201 TTTGTTCAAATCAGGATCCAAACAGAACAAAACACTTCATTAAATTATGTTCTTTTTTATTGTTGTTGATC  
 127281 TTTTGAAAGATGATCTTTGAAAGATTGAAAGTATTGCAAAACAGAAAAGTAAACAAAGTGTATAACTGCTCAG  
 127361 TGAATTTCACAAACACTGAACACATCCCTGAAACACACCCAGAACAGCTGCCATTCTCCGTTACTGCACTGACCC  
 127441 CAAGGGTAAACACTAACCTGACTCTAAACACAAATTAGTTGCCGATTACAGCTTAATATAATGCACTCATAC

IDE\_us-7306

IDE\_us-7304

127521 AGTATATACTCTTTGGGTCTGGCTTGTAACTATCTGGTGGAGATTATCCATATTGTTAGAATAATTGTTGTTGT

IDE\_us-7320

IDE\_us-7315

IDE\_us-7329

IDE\_us-7368

127601 TCACTTTCTTTCTTTCTTTCTTTCTTTTTTTTTTTTTTTGAGACAGTCTCACTCTGTTGCCAGGCTGG  
 127681 AGTGCAGTGGCGTGAATTCAACTCACTGCAACCTCTGCCCTTCAGGTTAAAGTGTATTCTCCCTGCCAGCCTCCAAAGTA

**FIG. 6AG**

**Heller Ehrman White & McAuliffe, LLP**

Sheet 85 of 113

**Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases**

**Neurodegenerative Diseases**

Date of Filing: 6/18/03 Althy Dkt No. 37481-3308B

127761 CCTGGATTACAGGGCCACCACTGCGCTTAATTTTTTTTTTTTTTAGTACACGACCGGGTTTCAAATGCTTG  
127841 GTCAAGGGCTGGCTTGTAACTCTGACCTCAGATGTCATCTGCCAGCTCCCAAAGTTCGCGGATTACAGACATGC  
127921 CACCGCGCCGGCTGTTGTTACTTTTTTGAGATGAAGTCACACTGTGCAAGCTGGACTGCACTGGTGCAAA

IDE\_us-7759

128001 TCTGGCTCACTGCAACCTCCGATTCTGGTTAACCAATTCTCTCAACCCTCCAAAGTAGCTGGGATTACAGGCATG  
128081 CGCCACAATGCCGCGCATTAATTTTTGATTTTGTAGAGACGGGTTTCTCAGTCGTGTTAGCCAGGATGCTCAATCTC  
128161 CTGACCTCAGGTATGCCAACCTGCGCTTGGCCTCCAAAGTGTGCGGATTAGGGCTGAGCCACCGTGGCTGGCCATAAGC

IDE\_us-7995 IDE\_us-7997

IDE\_us-7970

IDE\_us-8099

128321 TCTGTCCCCAGGCTAGAGTGCAGTGGCAGAATGTCGGCTCACTGAAACCTCTGCCCTCCGTTCAAGAGATTCCTCTG  
128401 CCTCAGGCCCTCTGAGTAGCTGGATTACAAGTGCACTGCCACTATGCCCTGGCTAATTTTTGATTTTTAGTAGAGATGGGG  
128481 TTTCACCATATTGGTCAGGGCTCCTACATCTCCGACACACAATCCATCCGGCTCGGCCCTCCCAAAGTGTGGGATA  
128561 CAGGCACTGACCCCCACCGCCCTGGCCAATTTTTGATTTTGATTTCTAGAGATGGGGTTTGCCTGCACTGTGGTCAAGCTGGT  
128641 TTAAACTCCTGACAGGTGATCCATCTGCCCTGGCTGCCAAAGTGTAGGATTACAGCGTGGAGCCACTGCCACCTGGCCT  
128721 CTCCCTCCTTTTTTATTGCAATTATTTGTCAAAGGAGTTGAGTCATTATCCTATAGTGTCCAAACATTCTAAA  
128801 TTTTGCTGACTGTATTCTTTTATTTTTGTAGATGGAGTTGAGTCATTCTGCCCTGGCTCTGGCCAGGACCAACAAGGAGGAGT  
128881 GCAATGGACTGACCTCGCTCACTATAACCTCCGCTCTGGCTCAAGTGATTCTCTGCCCTCAGGCTCTGAGTAGAT  
128961 CGGATTACAGCGCTGACCAAGCTGGCTAATTTTTGATTTTGATTTCTAGAGACGGGGTTTCAACCGTTGCCCA  
129041 GGCTGGCTTGAACTCCTGACCTCAAGCGATCCACCCGCCCTAGTCTCCCAAAGTCTGGGATTCCAGCGTGGAGCCAGC

rs2901597

129121 GTGCCAGCTGCTGACTGTATTCTAACATGTGACCTAACATGTTGTTCTTATTTCTGTAAATGGTAGTTACAT  
129201 CCACCGATTGTACAGATTCAGCAAATATGCGATTGAGAACCTCTTAACGAGACTCTGCTGCTGCTACGGTGGGATACA  
129281 AAAATGACTAACAGACATCACTCTAACATCTATGTTTATTATGAATATGAAAGCTTAAGGCCAGGGCTGGTGGCTCACACCT  
129361 GTAATCCCAGCAGCTTGGGAGGCAGCTGGATCACTTGGAGCCAGGACTTGAGGCCAGGACTTGAGGACACAGACTGGCCAACAAATGCA

IDE\_us-9150

129441 AAATCCCCTCTACTAAAAATACAAAAGTACCGGCTGGGCGGTGGCTCACCTGTAATCCCAGCATTGGGAAG  
129521 CTCAGACAGGCCATCACCTGAGATCAGGAGTTGGAGAACAGCCTGACCAACATGGAAACCCCGTCTACTAAAAA  
129601 TACAAAATTAGCCGGTGTGGTGTGAGGGCTGAAATCTAGCTACTCGGAAGGTGAGCCAGGAAATCACTTAAAC  
129681 TCGGAGGTGGAGGTTGCACTGAGGTGACCTTCAGCTGGGCAACAAAGGCAAACACTTGCTCTCAA  
129761 AAAAAAAAAAAAAAAACTAAAATACAAAAGCAGCCGGTTGGTGTGACACCTGTAAGTCTAGCTACTTGGGACA  
129841 CTGAGGCAGAAGACTCCCTGAAATCCGGAGGCCAAGGCTCAGTGAGCCAGATACTGCCACTACACCCAGGCCGGT  
129921 GACAGACTGGAGACCCCTGTCTGCCGTGTTTTGTGTTGTTGTTCTGAGACTGAGTTGGCTCTG  
130001 TTGCCCCAGGTGGAGTGCATGCACTGCTGCCGTCAAGGCCACTTCTGCCCTCCAGATTCAAGGACTTCTCCGGCTC  
130081 AGCCTCCAAGTAACGTAGAATTACAGGCATGTGCCACCATGCCCAAGTTAATTGTTGATTAGTAGAGACAGAGTTCT  
130161 CCATGTTGGTCAGGCTGGTCTGAACTCCGACCTCAGGCCATCTGCCAGCTCGGCCCTCCAAAGTGTGGGATTACA  
130241 CTGTGAGGCCACCATGCTGGCAGGGCAGACTTTTAAATTCTATTTGTGACTATCACAGGTATGCCACTAACCTGAC  
130321 TAAACATTGTTGAGTAATTAAAACAGCTAAAGGTGTTTTCTGTTTTGTGAGACGGAGTCTTGCTCTGTC  
130401 CCCAGGCTGGACTGTAGTGGCAATCTCAGCTCACTAACAGCTCCGCCCTCCGGTTCATGCCATTCTCTGCCCTCAGC  
130481 CTCCCAAGTAGCTGGACTACAGGCCGCCACACCCAGCTAATTGTTGACTTTAGTAGAGATGGGGTTTC  
130561 ACCGTGTTAGCCGAGGTGTCATCTGCCGTGACCTCGTACACCTGCCCTCCCAAAGTGTGGGATTACAG  
130641 CCCGAGGCCACCGCTCTGGCCCCCATTTTCTCAAGATAAGATCTTGCTCTGCACTCCAGGCTGACTCAGCTGGTA  
130721 TGATAATGACTCACTGCAAGCTCACCTCCAGGCTCAACTGATCCTCCAGCTCAGGCCAGTCAAGGACTTGGGACCAAG

KNSL1\_us-8576  
IDE\_us-10582

130801 GTGAGTCCCACCATGGCTGAGACTATTTCACTTTTGAGAGATGAGGTCTGGAGACTCTGGAAGAATTCTTACGTTA  
130881 ATAAAAAAATTCCAGGATGCCAAATTCTATATCCAGGTTGACCATAGTGGCTAACCCCTGTAATCCTCACCTAAGGAGGT  
130961 AGAGGCAGAGATAGTTGACTCCAGCATAGTTGACTCCAGGACTTCAGGTTCAAGACCTGCCGGCAACATATGTGAGACTCT  
131041 GTTCTCCATAAAAAGGGGGGGAAAGACCAAAAAAAACCTTATATTCAATTATGATCTCAATTACTGAAAATATACAAT  
131121 AGACAACTGGAAGAAATACATCAAATATTAAATGGTAGTATTGCTGGGTGCTGAGAAATCTGCTATCTCTACAGGAG

**FIG. 6AH**

**Heller Ehrman White & McAuliffe, LLP**

Sheet 86 of 113

## Title: Genes and Polymorphisms on Chromosome 10

#### **Associated with Alzheimer's Disease and Other**

## **Neurodegenerative Diseases**

**Serial No. To be assigned**      **Applicants: Becker *et al.***

Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

131201 TTCCAGAAAGAACACAGCTGGCAAGTGAATAGTCATGAAATTCAAACATTTCCCGAGACTGAAGGTAAACAA  
131281 CTTGCCAGACTGTGGCTCAGCCCCAATTATGAAACTAGATGCCACACATTGGCTGGCATGGGGCTCACACCTGTAATCCC

KNSL1\_us-8074

KNSL1\_us-7836 KNSL1\_us-7832

131601 CTCCGTGTCAAAAAAAAAAGAAAAGAAAGTAGATGCACACCAAGGCACATCATTGCAAGATTCTTTTTTG

KNSL1\_us-7764

131681 TTTTTGCTTTTGTAGACAGCACTCACTCTGGGCCCGACTAGACTACAGTGGCACGATCTCAGCTCACTGCAA  
131761 CTCCACCTGGGGTCACAGGCGATTCTCCGGCTCACGCCCTCCAACTGGGACTACAGGCACGCCAACATTGCCCG  
131841 GCTAATTGTTGTATTTAGTAGAGATGGGGTTCAACCATATTGGCCAGGGCTGGCTCAGCTCTCTGACCTCGTGTCA

KNSL1\_us-7454

131921 CCCACCTCAGCCTCCAAAGTGTGGATTACAGGCGTGAGCCACCATGCCAGCTGCAAGATTCTTTCTTTCTT

KNSL1 us-7454

KNSL1\_us-7448

132001 TTCTTTTTTTTTTTTTTTTTGAGACGGAGTCTGCTCTGACCCAGGCTGGAGTGCGAGTGGTGCAAT  
132081 CTCCGGCTACTGTAACCTCACCCTCCACAGTCAGACGAGTTCATGCCCTCAAGCTTACCGGATTACAGACGCT  
132161 GCATCACCAACGCCAGCTAATTTCATATTTTAGTAGAGACGCCGGTTTACCCATGTGGCCAGGCTGGTCTCAAACCTC  
132241 CAACTTCAGGTGATCCACTGCTCGGCTCCCAAAGTCGCTGGGATTACAGACATGAGCCGCCACACCCCCGCTCATGG

KNSL1\_us-7082

rs2421941

132321 AAAATTCTAGTCAGTAAATGCTCAGCTATGAACAGACATAATGACCTGAATACAGATAATTGATTAACCAGA  
132401 AATTGTAAATTGGCTTATAGGAGAACATGCAGAGGAGTCGCTAAAGTTTGAGAACATAACCTCACCTACATAAGAT  
132481 GTCAATAAAATAATGCTTAAATGGATTATAAAAGGATAACCTAGCTTATAGCTTGGCGACAGGGTGGCTCATGCCATAATC  
132561 CTAGCACTTGGAGGCTGAGCGGGAGATTGCTTGAAGTCAGCTGGTAACAAAGCAATACCC

KNSL1\_us-6755

132641 GTC TCT ATGAA CAC A CT T AAAA ATT ACT CGGT GT GG TG CT GC CT GA TG CC AG GT ACT CAT GAG GC TG AG GG CA GT  
132721 AA GAT CACT CT AC TG AT GC AG GT TA TT CG AG GG CT GA AG CT GG ACT CT GG AC CC AG GAG GT CA AG GG CC CA  
132801 CGGGT GGCT C AT CG CT TA ATT CCA CG AC TT GG AG GG CA AG GT CG GG GG AA TA CT ACT TG AG CC CG AG GA TT CA AG AC CA  
132881 GC CT GG AC AA CAA AG TG AG AC CC TG CT CT AC AAAA AT AG AAAA AT TT GG CC AG GT TG AG TG GC AT GT GG CT TG GG CC

KNSL1\_us-6484

132961 CCAGCTACTCAGGAGCTGAGGCAATAGGATTGCTCAATGGGAGCAGTTGAGGTGCTGAGCTGATAACCTGATAGAGCCACT  
133041 GCACTCTAGGCTTAGCACAAGAGTCAGACCCCTGTCCCCAAAAAAATAAATAAAATAAATCACAATAACAGTATAT  
133121 ACAAAATCTCTTATGAAAATAGTGTAAATGCAGCAAAAACAACAACTAAAGTGGCTGTGTTCTGGGGAAAGGTC  
133201 TAGAGGCATTGGTGTGGATAAGGCTGAGAAAATACTTTTTTGTGTTGTTACAAGCCTTTAGAACATTAACT

KNSL1\_us-6097

FIG. 6AI

Heller Ehrman White & McAuliffe, LLP

Sheet 87 of 113

Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

KNSL1\_us-5646

133761 ACCACTGGCACACGCCACCATGCTAAATTTTTTTTTTTTTGTATTAGTAGAGACAAGGTTCACCATATTG  
133841 GCTAGGATGGTCTCAAACCTCCTGACCTGGTGATCTGCCATCTGGCCTCCAAAGTGTGGATTACAGGTGAGCCA  
133921 CCACACCGGCCAGCTAATTGTGTTGAGATGGAACCTCGCTCTGTTGCCAGGCTGGAGTCAATGGTGTGAT

KNSL1\_us-5422

134001 CTTGGCTCACTGCAACCTCCACCTCCAGGGTTCAACCGATTCTCCCTGCCTCAGCCTCCAAAGTAGCTGGGATTACAGTCA  
134081 CGTGCATCACACCCAGCTAATTGTATTAGTAGAGATGGGTTTCGCCATGTTGCCAGGATGGTCTCGAACCC  
134161 CTGACCTCAGGTGATCTACCTGCCCTGGCCTCCAAAGTGTGGGATTACGGCGTAAGCCTCGGCCAGCCGAGAAA

KNSL1\_us-5161

134241 TGTTGATTATTAGGCTGAGTAGTTGAACTCAACAAAGCAATGTTAAATGACATTTCAGGGACTGCTAGTGCAACAAA  
134321 ACACATTACATGGGCCATTAGACCTAACTATCTCTATTAGACTTAGCCCTGAGGGCAAGTACAATAATTCTAGCCTGTAT  
134401 ATTCACTGCCAGGCCACAGTAAGCATTCAAGAACAGTATGGAGAAAATGAGATGTGACCAGCATGGGCTCATGCC  
134481 GTAACTCTCAGCACTTGGGAGGCTGAGGTGGGATCAGGAGCTCAGGAGPTCGAGACCATCTGGCAACATGGGAA  
134561 ACCTCGTCTACTAAAAAATACAAAATTAGCTGGGTGTGGTAGCGCCTGTAAACCCAGCTATTAGGAGCTGAG

KNSL1\_us-4791

134641 CATGAGAATTGCTTGAACCCGGGAGGGAGGTTGCACTGAGGCCAAGATTGTGCCACTGTACTCCAGCCTGGCAGACAG  
134721 CAGTAACCTCATCTCAATTAAAAAAAAAAAAGAATACATGCACTTAGCAAATGAAAAAAACTCAATGGGAAAGACAG  
134801 TAGTTAAAGAACCTGGGAGTTGGAATGGGAAAGAATTCTAAGTCTCTCCCTAATAGTTAACCTTACTATGATTAAAGT  
134881 GTAAGCTACAGTGTATGCTGTACTGACAGACAAACTTATTGGCTAGTTACTGATAAATAGTAAAGAATAATAGTT  
134961 CCTACTTCACAAAGTTGTTCTCAAGATTAAATGAGATGATACACACAAAGCCTTAGCATGAGTCTGACTCACAGTAAA  
135041 CCCTAGGTAATGGTAGCTGTATCTATTATCAAATGGAGACTCTTGAATTCTTGGCTCAACCATGTGACTGTTAACAT  
135121 ATATATTGTTGAATATTGTAAAGAGAAAGGAGACGGCCCAGCAGGGTAGCTTATGCCCTATAATTCCAGCAGTTA  
135201 GGAGGCTGAGGTGGGAGGATTACTTGAGACAGCAGGTTCAAGACCCCTGGCAGCATAGGGAGACCCCCATATCTACC  
135281 AAAGGAAAAAAATTAGCCAGCTCTGGCTTGCCCTATAGTCCAGCTACTCAGGAGCTGAGATGGGAGCATCCC  
135361 TTGAGCCCAGGAGGTCCAGGCTTCAGTGAGCCGTATGGTGTATTGTACTCCAGCCTGGTGTAGAGACAAGACCTGAC  
135441 TCAAAAAAAAGAAAAGAAAAGGGATTTTTTTTTTTGAGACAGAGTCTAGCTGTGTCACCCAGGCTGGAGTCC  
135521 AGTGGTGCCTACTCGCTCACTGCAACCTCACCTCTGGGTGAAAGCGATTCTCCCTGCTCAGCCTCTGAATAGCTGG  
135601 GACTTATAGGCCCTCCACCCACCTGGCTAATTTCCTGGGTGAAAGCGATTCTCCCTGCTCAGCCTCTGAATAGCTGG  
135681 CAAACTGGCTTGAATTCTGACCTTATGATCTGCCATCTGGCCCTCCAAAGTGTGGGATTAAAGGCATGCCACC  
135761 GTGCCCAAGCCAGTGTACTTTATATGATCTCCAGGTACTTTATGTTATTAACTCTACAATAATAGTAATTATT  
135841 ATCTCCATTTCAGATAAGGAAACCAAGGCTGATAGAGGTGAAGTATTCTCTCAGGACTCTAACATAATATTGAA  
135921 GTAAAGCCTTACTTGGTGTAAAGGCTTGTCAACGACTGGGAAATAATACTGAACAAAAGACAGGGCTCCATGAA  
136001 ACTTACATTCTATCCAGGGAGACACAAATATGACAATATAATATTGTCATACACAAATATATTCCCTGTAGT  
136081 GTTATGAAGAAAATAGACAGGGTTCTGAGATAGAAGGTTAAAGAGGAAGGCCAGGTGCACTGGCTCACATCTGAAATT  
136161 CAGCACTTGGGAGGCCAGGAGGAGCAGATTACTTGAGGCCAGGACTTCAGGAGACTAGCTGGCAACATGGTGAAACCGA  
136241 GTCTCTTAAATAAAAAAATTAGCCGGCTGGTGGGCACTGTGAACTCCACATTTCAGGAGCTGAGGCA  
136321 CAAGAATTGCTTGAACCCAGGAGGGAGGTTGGGTGAGCCAGATCCGCCACTGCACTTCAGCATGGGGACCAGGA  
136401 CAAGACTCCGCTCIAAAAAAAAAAAGAAAATTATGAGAAATGTGTTTAGATAGGGTGTCTGAGAAGAGGTGTTTAA  
136481 AAGAAAAAAACTCAACTGAGAGCTGAGAAGATGAGGGTGTGAGGCAACTGCAAAGGACAAACAGACTTCAGGGCAGAGGTA  
136561 CGTCAGGTCAAGGCCCTGGCCACAGGAAAAAGCTAGGAGCTGTGAGGATGAGATTGAAAGTGTGGCTTAA  
136641 GTTGGTGTATGGACAAGGGCAGATCATGAGGACCTACAGGACATCTAATGAGTTGCAATTAACTCCAAATACAAA  
136721 TGAGAAGGTAATGTAAGATTAAAAGCAGATGAAGAGCATAATCTTATTCTTAAAGACACITCCCTTGCT  
136801 GAGTAAATGTAAGGGAGGTTGGGAGGTTGGGAGGAAAGGGCAGAAGGAAACTTGTTAAAGGAGGTAGATGACATTGTC  
136881 AGGGAAAGAGATAAGGCCCTGTACTAGGGTGTGATCATGGGAGGGAGATAAAATCAACAGGACTCCACTACACGTGGAGGA

rs1889894

136961 ATCAAAGGTTCTGGTTAGCACCACTATCCAGATGACAAAGATTAGGCTGGAGATAGGCCCATTGAAATGCCAGCGA

KNSL1\_us-2365

137041 GCCACCTAAGAGGAGATATCAATAGACAGCTGGCTACTCAAAATAGAGATGACCAGCAGAAGGAGCTGTAGATGCAGTTA

KNSL1\_us-2310

137121 TTTCCCTGGGGGGGTGTGCGGGGGGGCATGTAGGGATTAGCAAGTGGAGGAACACAAAAGGACATCAGAGCTT

FIG. 6AJ

Heller Ehrman White & McAuliffe, LLP

Sheet 88 of 113

Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

137201 CCACTACACGGGTTGTTACTTAATAGACTAACAGACATTAGGTTCCCATGGGTTGTGGGCCAGAACCGCAGTTCC  
137281 AGGAACCGACTACAACATAGTGTGGGATATGATGTTCTCTCAAAATAACCCGATCAACTTCTTATTCCTTTAATTCTAG  
137361 TACCCCTCCCTTTCTCTTTCTCTTTTGCTTTGTTAAATGCCAGCACGCCACAATACTAGGCCTTATCAAT  
137441 ACCAGCTCACATCCCTTCTTATGAGGGACTAACTTTAGCTCATACAGACACCCCTTCCCTTCTGTCGCGC  
137521 TTCTTTAAGTACCCACCTTAGTAAAAAAATCAAATGTTAGCCAACGGGATAGTTAGATTATAACGACCGACC  
137601 CCAGCCAATGGAAAAGAGATAACAGGGCAGGACTTGCCTCAAAATAGACTCTGCCCTTGTTCAGGTGTCTCAA  
137681 GGCGACTGGCCAAAAGGCACCCCTGCGCAAAAATAAAATGCTTGTCTAAAATCCTTGTTCAGTGTCAATTTC  
137761 CTAAAGATTAAAGCTTATCTAAACAATAGGGCTTCTAGTATTCTCTGCGCCGCTACACACCTACAGCGGT  
137841 CGAGTCACGCCAGCCTGCCAAGGCCAAAAGTTCTCCCGCAGCAGGGGAGGTGACGCCAGGGCGCAGGCCCA  
137921 GCGAGCGCTGCATGCTGGGATCGTAGGCCGGCGGAGTGTGCGCAGCTTCTTGAGATGCCACCCGGCTGCG  
138001 CCGCGCAGAAACGGGAGCGCAGGCCACCGCGCCCTGCGTACTCGGTCACTGCACTGCTTCTAAATCGAGGGGACC  
138081 CTGCTTCTGCTGGAGTCACTTAGAGATGACTAAAGGATAAATTCAAGCTCTCCAAATGGCTCAGTGTCCAT  
138161 TTCATCACGATTGGAACCTGTAGTACGCCCTATCGCTTAACACTTCTAAATTATTATTATTATTCTTCTGAGAA  
138241 AGGGCATGCTCTGCGCTATGCTGGAGTAATCCAGGACATAATCCGGCTACTGCCAGCTCATGCTCAATTCCCGTGTTC

KNSL1\_us-1056

138321 GCGATCCTCTTCCTCAGCATCCGAGTAGATGGGACAAAAGGCACGCATCACCAACACCAGGCTATTCTCCCTCTA  
138401 TTTTTGAGACCCGTTGGGAGCCGCGGGAGGGGGCTCCCTATGTCGCCAGACTGGCTCTAAACTCTGGAACCT  
138481 TAAGTTATGCTCTACCTCGGCCGTTAAAGTGTGGGATTACAGGCCGAGGCCAGGGCCAAACATTAAATTATCTT  
138561 CAAGCTATTCTGGACCGGGCGCTGGCTCACCGCTGAACATCCGACTTGGAGGGCCAGGGTGGGATCATCTG  
138641 AGGTAGGACTTCGAGACCGAGCTGCCAACATGGTAACACCACATCTACTGAAACAAATATTAGCGGGCGTGG  
138721 TGGCACGCACCTGTAATCCCAGTACTCGGGGCTGAAGCAGCAGAACCTGCGAGGGGAGTTGCAATGA  
138801 GCCGAGATCGGCCACTGCACTCCAGCCTGGTGACAAGACCAAGACTCCGTCTCACACACACACACACACA

KNSL1\_us-565

138881 CACACAAGACTATTCTGGTCTCGCCTCCGGATGGCGGCTCGCTTGGACCTCTTCTGTGCTTACTGCCCTCTC  
138961 TTACAATTCTCTAAATTATAATCATGGCAGTGCTTACCATATATTCAAATCTATTACTTCCACAAGCTCATTAATT  
139041 CTCACCTCTAACCTCTGAGATGGTACTATTATTCTCTCTGAGCTGGGAAATTGGCTAGGGACGTTATGTAAG  
139121 TTGAGGCCACCTACGCTAAAAGTCCACACTCAAATTCTAGCTCTCGGCTCTGACTACCAAGTCCGGACAGACAGAC  
139201 AGACCACCTCTTACGTTCCGCTAGGCCACGCTCCGGGGGGCTCCAGTGAGGAACTGCATCCATGGCCTTGC

rs2297743

139281 GCGCCAGCGCAGCCATTGGTCCGGACTCTGCTCTTTCAAATTGAGGCAGGAGTCGTTGCTTAGTTCTGGGAT  
139361 TCGGGCGAGACGAGATTAGTGATTTGGCGGCTCGACTGGCGGGACAAACGCCACGCCAGAGTACCGGGTAGAGAG  
Exon 1

139441 CGGGGACGCCACCTGCGTGCCTCGGTCTCCAGGCCACGCCAGGGGAGAGGGAGACTCCGGCCCTGTC  
Exon 1

139521 GGCGGCCAAGCCCTCCGCCCTCACAGGCCACGGTCCGCCGGCTTGATTTTGGCGGGACCGTCATGGCGT  
CDS start

Exon 1

139601 CGCAGCAAATTCTGCTGCGAAGAAGAACAGGAGAAGGGAGAACATCCAGGTGGTGGTAGAGTCAGGTAGGGAGAG

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139681 GGCTGACAGGATTCCGAGCGCTGCCCTCGCTGCTGGGCCCCCTACTGCCGGTCAAGGGAGAGGATTATTGCT  
139761 TTCCCTGAGGGTCCCAGTTCTGGTCTCCGCGCTCTGTTCAATAAAAGACACCCGGTGTGTATGTGTTT  
139841 TAGGAGAAAATAACATGTTGATCACTGCTTCCACTAGGAAAGTGCCTTCTTATGTTAAACTATAGTCATAAA  
139921 GATGTAGGTGTCACTTTATATGCTACTTCACTGTTGTTGCTAGTTGGAGTAAGACTGAATACTTATTCAGATGG  
140001 TTAAGCACTTACGTTGTTATTACCTCTAAAGCAATCAACTGTTCTCTTATCTAGATGCAATATTCTGC  
140081 ATCCCTACTAACAAAGTAAACATCTGCTTTAAACATTTAAAGTAAAGTGAATTATGTTTTAAAAGATCAA  
140161 GACAAGTTAGCTAGTGAATTCTGATTTGCTGCGCTGCTGGCTTCTCATCTGCTTCTGTTCATAGACCAAACAA  
140241 ACGGGATTTGGAGATAAAAGGGATGGAGGGGTGTTGCCCTCCCTGACTGGTTCCAATAACTTCCAAATTAA  
140321 AATAAGCTAGAAACTGCTCTAGTTAGAATTGATTATTCACACTTTAGAGGCTCTCACAGTTACTGAGTATGTG  
140401 GTTTTGTTGCTGCGTTTGCTGGCTTTGCTGGAGTCAACTTTCTGTAACCCCAAAGTATTCAAATTAA  
140481 AGGTATTAGAAAAGTGTATCAACAAACTTCTTCTAGGCTATTGTTACTCAGGCCCTGGTAACCTGAATTGTG  
140561 TATCGAAGGTGATGACTAGGTTCTAAACAAAGGTGTCAGAGAGGAATTGGGTGGCACTTAACTGCTAGCCAGTGCAC

FIG. 6AK

**Heller Ehrman White & McAuliffe, LLP**

Sheet 89 of 113

**Title: Genes and Polymorphisms on Chromosome 10 Associated with Alzheimer's Disease and Other Neurodegenerative Diseases**

**Neurodegenerative Diseases**

KNSL1 1i.D+995

140641 TTACTAGTTGTTGACTCTGGGGCTCTGTAGTAGTTAGTTGTTGAAGATTTTATTTAAAAATGCAGTCATAAAC

KNSL1\_1i.D+1066

140721 AAGTGCAAATTTAAATTATTTGGTGTAAATAAAAACCGGCAATTACCTTCCGTATGCATTATTAAATTTC  
140801 TTTTTAATGTTAGTACAAATATTTCAGACTTACAAGAAAGTTAAAGAACATGTAATAAACATTGTAATTTCATC  
140881 ACCCAGATTAAGAACAAAACAATCTGCTGGAGCCCCCTTTCCTCTCCATCCCCTTCCTCCAGGCAACTGTTAAC  
140961 CATTATCTTGAACCTGTTATGATCCGTTACATTTCAAGCTTAGAAGAGATTACTTATCACCAATGAGAAGAA  
141041 TAGTTCTTGGTTGCTCAATATTACAAATAATTGTTGTTAGAGATTTTTTCTGATAGCCTTTCTTCA

KNSL1\_1i\_D+1503

141121 AATAGCCTTCCGGCGCTCTGCAATTAGCATTAAAGCTTGTAAATAGCAACTTATGAGTTGGGAGGCCTCTCAGGG  
141201 TTGCTAAGCCTTTCTGTAAGGGCCACAGAAAATAAATTTTATTTAAATCTTAACTTTAGGCTTTGAGATCACATG  
141281 TGGTTATCATGGTTTGTAGACGGACTCGCTCTTAGGCCCTAGTCGACTGTCGACATCTCAGCTACTGCAACC  
141361 TCCGCCCTCCGGATTCAGAACATTTCACCTTCAGGCTAGTCGGGATTACAGGCCACACCCGGATCCTGG  
141441 CTAATTGTTGTATTTTAGTAGAGATGGGTTTACCATGTTGGCCAGGCTGGTCTGAACCTGACACTCAGAGAATCC  
141521 ACCCCACCTTGGCTCCCAAAGTGTGGGATTATAGCGCTGAGCTACTGTACCCCTTACATGTGGTTCTGCACATTAT  
141601 TTTCTGATCTTTTTTTAAAGAACACTTTAACACTGTAAAAACATCTTAAATCTGTCAGGGCAGGGCCAGGTGTTG  
141681 ACCCCACAGTTAACACTTACAGATCCCACATAATTCGCTACTGGTCTCTTTTATGTCCTCCATTTCATCCCCCA  
141761 TTTTTTCCCAATTAAAGTCATTTCACACACATAATATAAAATTAAACATCTTAAACACTTTAAGTGTACAGT  
141841 TCAGTGATATTAAACATACATAATTCTGCAACAACTACTACCATCCATCTCCAACTCTTTACATGCAAAACTGAA  
141921 ACTCTATACACATTAAACAACTACCTCCCATTTCTCCATCAACCCGACACCTTACATTGCACTGCTTATGATT

KNSL1 1j.D+2386

142001 TGACTACTCTAAGTACTTCATAAAAGTGGAGTCATAATACAGTTATTCTCTTTGCTGACTTGCTCATTCACCTTAGGCAT  
142081 ATATGCCCTCAGGGTGGACCATGTTGTAGCAAATGTCAGGGTTCTCTCTTTAAGGCTGCATAGTTATTATATG  
142161 TATATACCAACATTTCGCTGTCCCTCATATGTCATGGACTTGAGTTACTCTTTTTGTGTTGTTGTTTTGAG  
142241 ACCGAGTCTCGCTGTGGCCAGGCTGGAGTCAGTGGCCGGCTGCTGGACTCACATGCAAGCTCATCTCCGGGTT  
142321 ACGCCATTCTCTCCTGGCTCAGCCTCCAAAGGAGCTGGAGACTAACAGGCCGCTGCATCTCTCCGGCTAATTTTGTTGATT  
142401 TTAGTAGAGACGGGGTTTCACCATATTAGCCAGGATGGCTCCATCTCTGACCTTGTGATCTGCCGGCTTGGCTCC  
142481 TAAGAGCCGGATTACAGGCGTGAAGCTAGGAGCCGGCTTGAGTTACTCTTACATTAGCTATTAGATAATGTTG  
142561 CTATGAATATGGGTTTCAATTCTTGGGTTATTACCCAGAATGTAAATTGCTGGATCATGATAATTCTATTAA  
142641 GTTTTTGAGGAACCCGACAACATTATTCTTACAGCTGGCTGGACCATTTACATTCTACCAACAGTGCATAGGGTCCAA

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KNSL1 1 i.D+3355

142961 TTCTATATTTTCGATTTTCAGATACATAAACCGCAAAATTTCCTCCCATTAAGTGCTGGTTGCCCTTTTACTC  
143041 TTGATACCGTGTGGCTTTCCCTTCTTTCTTTGGAACCACTGCATGGCTTTGATTCGTGTTGGCCCC  
143121 AGTCGACGGCTTCIGTCGATGTGTCGAGTGTGAAACCCAGGCCATACCGAACACCATAAGAACCTCAGGCTGTAGA  
143201 TACCAATGCTGGTCACATTGATACCCAATCTGTGTTCTCGATCTCAGAACAAAGTTCAGTATCTGAGAAC  
143281 TTGTTCTTCCTGATTCACACTCCCTGCATCTTAGACCTTCTCAGGGTTCTCIGCTTGGCCCTTGTGCACTGGC  
143361 TGGCAATCTCACTTCTCTGATGCCAAAGGATCTGACAATGTATTTGACTTTGAGAACACAGGGCTGGCTATGAG  
143441 CTGCTCCAACACCTTGGCTGTCGGCTCAGTCATCTCCACATCAGATGTTGAGACAGAAAATCGTCTCTC  
143521 ACCCAGGCTGGAGTCGGCACAGTCGGCTCAGTAACTCTGCCTGTCAGGTTCAAGCAATTCTATGCTTCAG  
143601 CCTCCCAAGTAGTCGGATTACAGCTGGCACCCATGCGCTGCTAAATTTCGATTTTACTAGAGATGGGGTTTCG

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143681 CCTTGTGCGGCCAGGCTGGCTTGAACTACTGGCCTCAAGTGATCCACCCATTGGCCTCCAAAGTCCTGGGATTATG  
143761 GTGTGAGCCCTCATCTGGCCAGAAGTTCTCTTTTTTACCTTGATCTTGACATATGATGGAAAAGGAAGATAAACTCT  
143841 TTTTTTTCCTTGGGTTGTGTTGTTGTTGTTGTTGTTGAGACGGAATTTTGCTCTCGCTTGCTAGGCTGGA  
143921 GTGCAATTGGTACCATCTGGCTTATGCCAACCTCCGGCCTCTGGGTTCAAGGCCATTTCCTGCCTCACCCCTCTAGACTAG

FIG. 6AL

Heller Ehrman White & McAuliffe, LLP

Sheet 90 of 113

Title: Genes and Polymorphisms on Chromosome 10

Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*

Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

144001 CTGGGATTACAGGCATGCCAACCGCCCTGGCTAATTTGTATTTTAGTAGAGATGGGTTTACCATGTTGGTCAGG  
144081 CTGGTCTTGATCTCCTGATCTCAGGTGATCCGCCACCCCTGGCTCCAAAGTACTCGGATTACAGCGTGAGCCCGTGC  
144161 CTGGGCTATTCTTCTCCCTTAAATATAGTATCTGCTTATTGCCAGACTGTTGTGAACCTCTGGACTCAA  
144241 ATAGTCCTCCTACCTCAGCCTCCAGGTAGCTGGGATCACAGGGATGCTGCTTTGATAACACAAACATTAAATT  
144321 ATGAAGTCCAGTTGCTTTGTTGTTGTTCTGTTAGCTTGGTGTATATCCAAGAAATCATTGCCAATCCATTG  
144401 TGTAGAGCTTTGCCTATGTTCTAAGAGTTTATAGCTTAGGCTTACATACATTGGATCCATTGAGT

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144481 AATATTGTATATTGTGTTAGATAAGGGTCAACCTCATTCTTGCATATGGATATTAGTTCAGCACCATTGGT  
144561 GAAAAGCTTGTCTTTCTGATGATGAATGGTCTGGCAACCTTATTAAAAATCATTTGCTCATATGTAAGAGGGCTTATT  
144641 CTAAGTGCCTGTTATGTCCTGGCTATAAGTCTGTTATGTCAGTACCATGGTTTGATATTGCGACTTTGTA  
144721 GTAAGTTGAAATCAGGAAGTGTGAGTCCTCCAGCTTGTCTTTCAAGATTGTTGGCTATCTGGACTCCCTTG  
144801 GATTCCATATGAAATTGAGCTGAATTTCATTTCTGTTAGTAAAGGATTCATGGGATTACATTGAAAT  
144881 CTATAGATCACTTGGGTAGTATTGGCATCTAACATAATTAGTCTTCAGTGCATGACAAGGGATGTGTTCCATT  
144961 ATTATGCCCTTAATTCTGCACAGTTTTTGTGTTGTTGTTGACATGGAGTTGGCTTGTGTCAG  
145041 GCTGGAGTCAGTGGCACAATCTAGTCATTGCAACCTCCACCTCCGAGTTCAACTGATTCTGCCAGCCTC  
145121 GAGTAGCTGGGATTACAGGTATGCGCACACGACCTAATTGTTAGTATTAGAGACAAAGTTTACCACTGTT  
145201 GGTAGCTGGCTCAGGAACCTCTGACGCTCAGGTGATCCACCCACCTGGCCCTCCAAAGTCTGGGATTAGCGTGGAG  
145281 CCACCGCCCTGGCCTCAGCAGTTAGTTTATAGTTTATAGTCTTCACCTCTGGTTAAATTAAATTACTAAT  
145361 ATTATTATTCTTTGGTGTAATTAAATTGAGTTGTTTTGTAATTTCCTTTTAGATGTTCAATTCTTAGTGTATAAAA  
145441 AATGTAACCTGGAGGCTGGCACACTGCGCTCACCCTGTTATGGGAGCAGTGGGAGCAGGTGGCCCTCCAACCTCCT  
145521 GATCACGAGATCAGGACTTCAGGCCAGCTGGCAACATAGTGAACACCTGTCCTACTAAAAAATACAAAAATTAGCCA  
145601 TGCATCGTGGCGCTGCGCTGACTCCAGCTACTTAGGAGCTGAGGAGAACTCCCTGAACCTGGAACCTGGAGG  
145681 TGTGGTGAGCCAAGATCGTGCACTGACTCCAGCCTGGCAACAGAGTGAGACTCTGTCCTCAAAAAAAAAAAAGAA  
145761 AAAAGAAACCTGCTGGATTTCAGCTGTTGACTTCTACCTGGCAACTTGGCTACTTTGCTGAATTCACTTATTAGTTCAACAGTT  
145841 TTTTTGTTGCTGTTGTAATTTTAGAGTTTCTTCTTCTTGTGAGATGGAGTCTCGCTTGTGCTGGAGCTGG  
145921 AGTGCAGTGGCGCGATCTGGCTCACTGCAACCTCACCTCCAGGTTCAAGCAATTCTCCTGCCAGCCTCCGAGTA  
146001 GCTGGGACTACAGGCACACGCTACGACGCCAGTAATTGGTATTTAGTAGAGACGGGTTTACCATGTTGCCA  
146081 GGATGGTCTCGATCTTGTACCTCGTACAGCCACCTGCCTCAGCCTCCAAAGTCTGGATTACAGCGTGAGCCACTG

KNSL1\_1i.A-6302

146161 GCCTGGCTTTTTTTTTTAATTAATTACTATTGAACTTCTGTTATTATTATTATTATTATTATTATTATTATTATTATT  
146241 TGAGATGAAATCTCGGTCTGTTGCCAACGGGGAGTGCAGTGGTGTGATCTGGCTCAGTCGAACCTCCGCCCTCCGGGT  
146321 TCAAGCAATTCTGCTCAGCTCCGGAGTAGCTGGGATTATAGGCCTGCACCATGCCCGGCAATTTTTGATATT  
146401 TTACTAGAGATAGGGTTTCATCATGTTGGTCAGGCTGGCTTGAACCTCTGACCTCGTGATCCGCCCTCGGCCCTCCC  
146481 AAAGTGTGGATTACAGGCAGCCACTGCACCTGGCTTATTATTATTATTATTATTATTCTACACTTAAAGTTCTGGG  
146561 GTACATCGCATGATGCGATTTCATCACATAGTAAACCTGCCCCATCACAGTTGCTGACAGATCAACCCATCACC  
146641 TAGCTATTAAACCGCAGCATCCACTAGCTATTCTCTGCTAGCTCCTTTGCCCCACTGAATTTTAGGGTTTCT  
146721 TTCTTTCTATTTTCTTTGAGACAGACTCTCGCTCTGCTACCAGGCTGGAGTGCAGTGGCACAATCTGGCTCA  
146801 TTGCAACCTCTGCCCTCTGGGTTCAAGCGATTCTCTGCTCAGCCTCCGAGTAGCTGGACTACAGGATGCCCAT  
146881 GCCTAGTCAAGTTGTTAGTTAGTAGAGACAGGGTTCACTATGTTGCAAGCTGGTCTCAAACCTCTGACCTCAA  
146961 GTCCCCCTGGGGTTCTGAAGTACTGGATTAGGTGAGCCACACGCCGGCAGATTCTATATAAAAGATCAT

KNSL1\_1i.A-5432

147041 ATAATCTGAGACAGATAATTTCATTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT  
147121 CAGGCTGGAGCGCGTGGCGCATCTCTGCTACTGTTACCTCTGCCTCTGGGTTCAAGCAGTTCTGCCTCAGCCTC  
147201 CCAAGTAGCTGGGATTACATGCACATGCCACACGCCAGCTAATTGGTATTTAGTAGAGATGGGATTCACTCAT

KNSL1\_1i.A-5160

147281 TTGGCTAGGCTGGCTTGAACCTCTGACCTCGTGATCCATGCCCTGGCCCTCCAAAGTCTGGATTACAGGCATGAG  
147361 CCACCGCTCTGGCCCTCAACCTTTCTCAATTGGATGCCCTTTATTATTCTCCATTGAGA  
147441 TGGAGTCTCGCTGTTGCCCCAGGCTGGAAATGCAGTGGCTACTCTGCTACTGCAACCTACGCCCTCGGGTCAA  
147521 CGATTCTCTGCCCTAGCCTCCAGTAGCTTGTACTACAGGCTATGTGCCACCATAAACAGCTAATTCTGACCTCAG  
147601 GTATTAGTAGAGACGGGTTTGCCTTGTGAGCTGGATTACAGGCTGGTCTCGATCTCGACCTCGCGATCCGCTCGCAG

KNSL1\_1i.A-4775

147681 CCTTCCAAAGTGGCTGGATTACAGCGTGAGCCACCATGCCGGCCCTGTTTTCTTGTCTGCTAATTACTCTAGCTA  
147761 GAACCTACAGTATTATGTCGAATGGAAAGTGGCAAAAGTGGCATTGGGATCCTGTCTGCTCTTGTATTG

FIG. 6AM

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10

Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned Applicants: Becker *et al.*

Date of Filing: 6/18/03 Atty Dkt No. 37481-3308B

KNSL1\_1i.A-4641

147841 TAGTTGTTGAGATCCTCCTGCCTCAGTTTCTGAGTAGCTGGACTATAGACACACTACTACACCCAGCTAATTAAAA  
147921 AAATAATTTTTTTTTTAGAGATGGGTCTCGCTATGTTCCCAGTCATCCTGAACCTGGCTTCGGGTGAT

KNSL1\_1i.A-4403

148001 CCTCTACTCTTACCCCTCCCATAGCTGTGATTACAGGCATGAACCCTGTGCTGGCCCTGTTCTGTTTTAGAGAAC  
148081 ATTCTTCAGCTTTGACCATCAATTATGTTGCTGTGGCTTTTCATATGTTGCTTTTATTTGTTGAGGTAGTTTCACT  
148161 CTATTCCCTAGTTGTTGAGCATTTTGACTAATGGGTTTGAATTTCATGCTACATGCTTCCCTGCATCGATTGACATG  
148241 ATTCTGTGGTTTCTCTTCAATTCTGTAAATGTTGCTACATGCAATTTCATGTTGGACCATCCCTGATTCCA  
148321 GGAATAAACTCCCACTTGGTCAATGGTATAATCCTGTGCTCAGTCATGTTGAGGATTTTGGTATTCAGGGTAATGCT  
148401 TTTATCAGTGTTCATAAGGGATAGTGTAGTTTCTGTAGTTGCTCAGTCATGTTGAGGATTTTGGTATTCAGGGTAATGCT  
148481 TGCCCTACAAAATGAGTTGGAAAGTGTCTCTCCTTGCAGATTTCCTCGGAAAGATTGAGAAGAAGTGTATTAG  
148561 ATCTTCCTGAAATGTTTATAGAAATCACCTATGAAATCTAGATCTAGGGCTTTCTGTAGGGAGATTTCGTTA  
148641 GTGAGTCCATCTTACTGGTTAGCTCATTCTCAGAATTTCATCTGATTAGTCTTGTAAAGTATTGTGTT  
148721 TCTAGGAATTGTTGAGCTGGTTATCCGATTGTTGAGCATACAATTGTTGAAAATACTTCAACAAATAAGACAGAAC  
148801 ACACAAATAACTAGTCTTTGTTCCAGTTCTAAGTGTAAAGTTAGGGTGTGATATGAGATCTTCTGCTTT  
148881 AATGTAAGCATTAGCTATAAAATTCCCCTAGCACTGCTTTGCTGTGCCCCTAAGTTGGTATGTTGATTTT

KNSL1\_1i.A-3455

148961 CATTTCATTAATCTCTAAAATTCTAATTTCCTTGATGTCCTTGAAACCTGGTACTTAAACACACACACACACA  
KNSL1\_1i.A-3439

149041 CACGTGTGTGTGTGTGTGTGTGTGTGGTTTTGTTGAGACTGAGTTCGCTCTGTTGCCAGGC  
149121 TGGGTGCAATGGCGCAGTCGGCTCACTGCAACCTCTGCCCTCCGGTCAAGCGATTCTCCTGTCAGCCTCCAGAG  
149201 TAGCTGGGATTACAGGCGCTGCCACACGGCTGCTAAATTTCACACACATTAAAAAATACATCTACCTGCTTTAC  
149281 TTCAGAACTTTGCAATTCTGTTCTCTGCTGAAATTTCACACATTATCAGGGCCTGGCTCCCTGCT

KNSL1\_1i.A-3094

149361 TTTTAGTTCTGCTAAATACACCTGCGTAGAAGCATTCCCTAACTACCCCTAAAGCAACCAACTATCTCCACCCCT  
149441 CAACACTTCTATCCCCCTTAAACTGCTTTCTTTCTTTTTTTTTTGAGACAGAGTCTCGCTCTG  
149521 TGCCCAAGGCTGGAGTCAGTGGCGCATTCTTGCTCACCGCACCTCCACTTCAGCCTCCCAAGTGAAGTGGACTGTAG  
149601 GTGCGCTGCCACCATGCGTGGCTAAATTTTTTTTTTTGAGATGGAGTCTCAGTCATCTTCAGGCTGGAGTGTAGTGGC  
149681 ACAGTCTCGCTCACTGCAAGCTCCATCTCCAGGTTCAAGTGTATTCTGCTAATTTTGTTAGTAGAGATGAG  
149761 GTTTCACCATATTGCCAGGGCTAGTTCGAACTCTGACCTCAAGTGTAGTCAGCCACCTTGGCCTCCAAAGTGTAG  
149841 ATTACAGGTGTGAGGCCACTGCGCTGGCTAAATTGTTGATTTTAATAGTGTAGGGTTTACTATGTTGCCAGGCTG  
149921 ATCTCAAACCTCTGACCTCAAGTGTAGTCACCCACCTCAGCTCCAAAGTGTAGGATACAGGCGTGGACTGTGCC

KNSL1\_1i.A-2480

150001 TGGCCTGTTTATTTCTAATTTCAGCATCTAATATTTATTCAGCATCTAATATTTATTCAGTCTCTCTCAACTAA  
150081 GTAAAAGCTCCCTGAGCACAGGATTGTTGTTTCTTCCTTAACTTTCTATTTGTTCAATTGCTGATCTCCAGT  
150161 GTCTAGAAAATTACCTATCACATAGTAAGTACTTGTGAAATTGTTGGAATGAGTTAATTAGCACTTCTCACAGGAT  
150241 AGGACTTAGGTTTTTAATCCTCAATCTCCCTCCCTCAGCATTTGTTGAATTATATAACTATGGTGAAG

KNSL1\_1i.A-2099

150321 CCAACAAATTGATGGATTGTTAGTGTGAGCAGCCGAAACTTGCAATTCTAATAAGTTAGAGAAGTCTGGTAGGAAA

KNSL1\_1i.A-2029

150401 CTAATGACTTGGCAGTACTCTTCTTAGACTACACATAGTCCCTAAAGCTCTGTAGAGAATTGATAACTTGAGGAAT  
150481 GTGTGATCTGTATGAATTCTCTATCACTTAGTCTGACAATGTGAATGGTATTGTTAGTAATTGAGCTTAAATTGAGCTC  
150561 AGGCAAGAGACTAGTTAGGGATGCCAAAATAATAGACTAATTGAAAGCTTACAGGCAATTCACTCC

KNSL1\_1i.A-1797

150641 ACTTGATGCTCTGGCTACCTCAGTATAAGTTGGTCTACCTTAGTTGTTAGTTAATAACTGTACATTCA

FIG. 6AN

Heller Ehrman White & McAuliffe, LLP

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Title: Genes and Polymorphisms on Chromosome 10

Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned Applicants: Becker et al.

Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

150721 GTGGTTATATGCATGTGTAAGTTAGTATAGTGGCAAATGAAAGCATTACAGATACTACCTGGAGTTAAGTTTC  
150801 CTTAGGATCACAGATTGGCTTCGATCACTTGAAGTACTTAGTGAGTGGCTGTGCCAGGGAAAGTGAGCTATCCTT  
150881 CTTAAATAAGTCAACTTGGTTATCTAGTGATAAGGGGAAATAATTTCCCTTGGCCAGACATGTATTGAGTATAAATTGCT  
150961 TACTCAATGGGAAAATGAACTCAGGTCAAGATTATGCTCCCTTGGCCAGACATGTATTGAGTATAAATTGCT  
151041 TATTGATGCTACTCTGGACTGTGATATTAGTCTTCCCATATTGCTTGGATGACATTATTAGCCAATGTAGTT  
151121 AACAGATTTAAGAACCTACTGTGCTAACAGATGGTAGTTGTTGGGAAACAGTAAACAGACAGTTTCTTTC  
151201 TGTAGTGATCTGAGGTTAGTGGTAACACATTAAAAAAAGATAAGAGACGTGATGTTAGAAAAGCTGATAAAGG

KNSL1\_1i.A-1140

151281 GTGCTGTAGGAATATAGCAGACATTAAATGTGGCTTGGAGCACGTGGGGAGGCACATAGGATAGAAAGGACT  
151361 TCCTGAGGAAATAATCATTCAACTAAATACCTACTCAGGCATTCCGAGAACATGGACTCTTGATCCAGTCGGCAGTG  
151441 TAGACCTCTGTCTATTCACTCATTTAAAATGGGCTAATAATATTACCAACCTCACAGTGTTGCTGGACAAACTG  
151521 AGTGAGCACAAATGCAAAAGCATTGAAACAATAAGTACCTGGCACATAGTAAGTACTCAACTTATTAGTCATTATTTTAT  
151601 CTACTTTTATTGGCAGGTATCTACTGGCAGATTAGTATTGACACAAATTGACATGTTTTTCTACTACAT  
151681 CATAACCTAATTGATCGGATTTTTTTTTTGAGACGGAGTTGCTCTGCTCAGCCCTCCGAGTACGAGGG  
151761 ATCGCGCAGTCTGGCTACCGCAACCTCACCTCCCAGGTCAAGCAATTCTCTGCTCAGCCCTCCGAGTACGAGGG  
151841 ATTACAGGCATGCCACCACATGCCAGCTACTTTGTATTAAATAGAGACAGAGTTCTGCATGTTGGTCAGGCTGGT

KNSL1\_1i.A-522

151921 CTCGAACCTCCGACCTCAGGTGATCCGCTGCCCTGGCCTCCCAAAGTGTGGGATTACAGGCGTAGGCCACTGCC  
152001 GCCTTGATCAGATTAAAGAATAGGAGAAATGAAATTCTGAAAATAAGTTGCAATTAACTACAAGTTAACCTGTTAG

KNSL1\_1i.A-364

152081 TGGCTGGCACAGTGTCTCACTCTGTAATACTAGCACCTGGGAAGCTGGGATAATCACTTGAGCCCGGAAGTT  
152161 TGAGACCAGCCTGTGCAACACAGCAAGACCCCATCTCTACCATCAAACAAAACAACTCTATTGCTATCTGCTCTAAAGAA  
152241 GCTGCCAGAATTGTAATGCTTAAACATATCTTGAAACATTAAAAATTATTTGTGAAACTTGAGACACTTATAATT  
152321 TACTGTCGTTAGCAATATCCTTGTGATTTAATCTCCATCACCAACAAATGTTGCTCAAAATTTCGCAATTCT  
152401 TGACAAATGTAGTTAGTGAACCTGAGAACTAACGACTAAGAGCTCTGAATGACTTTGTATTCTTTAT  
Exon 2

152481 AGACCATTAAATTGGCAGAGCGGAAAGCTAGCCCCATTCAATAGTACAATGATCTGTACAAAAGAAGTTAGTGT  
Exon 2

152561 ACGAACTGGAGGATTGGCTGACAAGAGCTCAAGGAAACATACACTTTGATATGCTAACATATGGCAATTCTTTAT  
152641 TATCCACTAATGAAATAATTAAATACATATTACATATTGTTACCTGGAAATCTGCTGATACCTAGAAATTTCAGTTGCTCTG  
152721 ATTGTCAGATGGCTCTACTGGGCTGAATTAGTAAACATACGAAAACAAATTAAATGACTAATT

KNSL1\_2i.A-15

Exon 3

152801 GAGGTTGATTTTTTTTATTGTTCTGTTAGGTGTTGGAGCATCTACTAAACAGATTGATGTTACCGAAGTGT  
Exon 3

152881 TGTTGTCACATTCTGGATGAAGTTATTGCTGACTATCTTGTGTAAGTAAAGGGTGTGTTCTGAT  
152961 TTATGAAAAGCTTAAATGCTGTGTTTTGTGTTGTTGAGACGGAGTTTCACCTTGTGCCCAG  
153041 GCTCGAGTCAATGGCGCATCTGGCTACTGGCCTGCTCCTGGGTTCAAGCAATTCTCTGTTGAGCTCC  
153121 AAGTAGCTGGATTACAGCTGCCACCATGCCGCTAAATTGTTGTATTAGTACAGACGTGGTTCACTGTGTTG  
153201 GCCAGGCTGGCTCGAACCTCCGGACCTCAGGTGATCCGCCACCTCGGCTCCAAAGTGTGGGATATAGGCTTGAC  
153281 CACTGTGCCCTGGCTTGTGTTTGTAGTCTACTAACAGACTATGGGTCATGTTCTTTGATTTAACAC  
Exon 4

153361 TTGTTAATCTTACAGGTATGGCAAACACTGGCACTGGAAAACATTACAAATGAAAGGTGAAAGGTACCTAAATGAAGAG  
Exon 4

153441 TATACCTGGGAAGAGGTATTGTTATAACATACTTTATCTCTAAATGTGACTGAAATTAACTGTATAAAACTGT  
153521 TTGAGGGCCTCTGCTTGGAAATAGAGATCAGACTACCTATGTCAAAATGAACCTAGGATAAAACCAACTACAGTAAAAT  
153601 TAAAGTGCATGGTATGACTCTGTTAACAAACAGCCTCAATGGAAGAGGACCAATATATGGCACAGTTATG

KNSL1\_4i.D+236

153681 ATAAAAGAGGAGTCTATTGACAGAAATGGTGGAGCAGAATATTGAGAAAAGTTGGAATATGACTGAAGCTTGAAGG

FIG. 6AO

**Heller Ehrman White & McAuliffe, LLP**  
 Sheet 93 of 113  
**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**  
**Serial No. To be assigned Applicants: Becker *et al.***  
**Date of Filing: 6/18/03 Atty Dkt No. 37481-3308B**

KNSL1\_4i.6

153761 CAGGGAGGGCTTGTATTGAAGGAATGGGTCTCAGAAAGTTAGCATGGCCAGGGAAACTATAGTACTTTATTGATGAGA  
 153841 TCCTAAGTGTCAAGAAATTAAAGATGAATCTATTTGTTTAATTTGAGAACATATACTATGTTTACAAAGATTTCCA  
 153921 TGAATTAACTGAGTTAATAACTAAGAGAGAGAACCAACTTGAAAGAAAGTTGAAAGAACAGACAAGTGTGAACT  
 154001 AGAGCTGAAGTGTAAAACCTTTAAAAAAACTTTAGTTAAATTAGTATGTGTTAAATTAAATGAGTTAATAA  
 154081 CTAGTTAATTGGTCGGGCACGGTGGCTCATGCCGTAAATCTAGCACTTGGGAGGCTGAGGCGGGCAGATCACCTGAGG  
 154161 TCAGCAGTTCGAGACCACGCTGCCAACATGCTGAAACCCGGTCTACTAAAAAATACAAAAATTAGCTGGGTGTTGGTGG  
 154241 TGCATACGTGTAATCCCAGCTACCTGAGAACGAGACTCTGTCTCAAAAAAAAAACAAAAACAAAAACAAAAACTAG

KNSL1\_4i.5

154321 TTAATTAAAGAAAAAGAATTTTTTTAATTTTTTTTTTAAATTAAATTTAAAGTGTGGGCCCCACTGTGTT  
 154401 CCCAGGCCAGTCITGAACCTCTGGCTTCAGGAGTCCTCCACTTCAGCCTCTGAGTAGCTGGGATTAGAGGCACATAC

KNSL1\_4i.4

154481 TACCTGCCAGCTAATTTCACAAATTATTGACAGTTGGGTAGAACCTTCTCTAGTGGTTACATAATTGAGTCATTAA  
 KNSL1\_4i.3

154561 CTTACTTTACATATATAGATAATAAAGTTATGAAATTGTTACCATAGGAGATATGAAATTGGCTAAAGCATAGTTTCGC  
 154641 TGGCAGAATTATTGAACTTGGCGTTTTTTGAGACGGAGTCTCGCTCTGCGCCAGGCTGGAGTACAGTGGCTCG  
 154721 ATCTTGGCTCACTGCAACCTCCACCTCCCGGTTCAAGTGAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGG  
 154801 TACATACCAACCAAGTCCGCTAATTGGTATTTTAGTAGAGATGGGTTTCACCGTGTTGGCCGGATGGCTTGATC  
 154881 TCCTGACCTTGTGATCCACCTGCCCTTGACCTCCAAAGTGTGCTGGGATTATAGGCGTGAGCCACCGTGCCTGGCCGAACCT  
 154961 GGCTTTTAAGTAGATAGTGTCCATTGGTTCTATGTAATGCTCAGGGATGAAGATGGCTAAGAAGTGTGACAGGTTAT

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KNSL1\_4i.2

155041 GGAGGGTGTGAAGACTACTGTAGAACAGACTGTTCTAAATGACTTCTAACATTAGGTTAGTTGTTCTTTTTGTTT  
 155121 TGTTTTAACTTGCTTGCCTACTTATGTTAAATATATTAAAGGAGCCCATGTATTTAACTGCCACAGTAAATGG  
 Exon 5

155201 CATTCTCCCTTATATTAGCCTTATTTAAATTTCAGGATCCTTGGCTGGTATAATTCCACGTACCCCTCATCAAATT  
 Exon 5

155281 TTGAGAAACTTACTGATAATGGTACTGAATTTCAGTCAGTCAAAGTGTCTCTGGAGATCTATAATGAAGAGCTTTGAT  
 Exon 5

155361 CTTCTTAATCCATCATCTGATGTTCTGAGAGACTACAGATTTGATGATCCCCGTAACAAGTAATTCACTGTTGAG  
 D10S583

155441 AATGAAATGTCCTGAAATTAAATGTCAGGCTTGAGAACGTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG  
 D10S583

155521 AGT  
 Exon 6

155601 AGAGAGGAGTGTAAATTAAAGGTTAGAACAAATTACAGTACACAACAAAGATCAAGTCTATCAAATTAGAAAAGGG  
 Exon 6

155681 GCAGCAAAAGGACAACACTGCAGCTACTCTGATGAATGCATACTCTAGGTAGAACAGCCATAGTCTCTCCCTAGCCCCAT  
 155761 TTCTCTTTAAAGAAGAATTAGGAACCTGGAGAAAGTCAAATTGGGTTGGCTCAGGGTATGTGGTCACGTACCTAGAGTT  
 155841 GTGTTATAAGGAGCCGTCATTGGTAATTGGCTTGAGATTATGGAAGGAACCAATTGGAGAAATGTTGAAAGGAGA  
 155921 ACAAAAGATAAGTTGAACCATAGCTGAAGTATTAAACTTTTTCTTTTGAGACGAATTTCGCTCTGTTACCCAGG  
 156001 CTGGAGTGCAGTGGCGCATCTGACTCACTGCAACCTCTGCCACCGGGTGAAGCAATTCTCCTGCCCTCAGCCTCTG  
 156081 AGTAGCTGGGATTACAGTGTCTGCCACTAGCCCAGCTAATTGGTATTGGTAGAGATGTGGTTACCATGTTG  
 156161 GCCAGGCTGGCTCGAACCTGCCAGGTGAACCAACCTGCCCTCCAAAGTGTGAGGATACACGTGTGAGC  
 156241 CACGGCGCCCGGCCATTAAAGTAGAGAACATCTTATTCTAGTAACATGATATGGAAGGCCAGGATAAA  
 156321 ATGTGGCTGCTATGGTATTGGAAATGGGACGCTCTGAGGCTTACCTCCTAGCCTATGAAGGGTCCCTGAGGCAC  
 156401 TTTTGTGGAGCCCCCTACTGATATTAGAATATAGTTGAAACCCCTTGCATTGAATAAGGATTAGAAGTTAGGTCTTTA  
 156481 AAATGGCTTATTAGTGTGGGAGACAGATGGTCACTAACACTGGCTTCACTGGGTTGAAAGGGATGATTTTTTCGCT

**FIG. 6AP**

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

156561 CTAATATCTTTACCGAAATAAAAATTCCCTTTAAAAAATTGTTTCTTCCCTCTTACCACTCTATTCAATTGAGA  
156641 TATAAAATCCTCTCATAAAATTACGTAAAGTAGAAACTCCCTTTCTGTAAAGACCCGTACAGGACAAATTCCAAT  
156721 TCTACAGATATAGTTACTAAAACAGAAGTGGTTTTCTGTGTGTGGCTTAAACCTCAGAATGAAAGAAAA  
156801 AAGCAATGGATTGCAATTAGATATTGCGTGAGTCAGTTCCGGTAATTCACTATGTCAGTTCTGGCTTGAG  
156881 GAATTATCTGCTTACGCTTCCTGAGCTACAAAATTGTTAGGATTAGAAGTCTTATTCTTCTGGCTTGAG  
156961 TTGAAAATTCTATAAAATGCCAACATTACGTTGCAACTCTAAAAGTTGCAATTAAAGAAAGAAAAAATAT  
157041 AACATAAAAGTATGAACTGCAATTGGATGATTCAAAATTAAATTAAATTTCACTTAATGGCTTCAAA  
157121 AAATGGAAATTATCTGCTGTTGATTATAACTTAATTCACTGAGAATTGAGAACTGAACAAAGACTAGGTA  
157201 TTTCTTCTAGGTACATTCACTAAAGTATAAAATTCTATTCTTCTTCTGTATGAGACTTGATAAAGGTCACT  
157281 TTGTTATGAAAGGTATGCAAAAGAGGAGAAGCTTAATTCACTGAGTTTCCCAAATTAGAGCTAACTGCTTATTG  
157361 TATTAACTGCCTAATCTGGATTAGGAATGGTAACTGAGTAAAGATGAGATGAAATTATTATTATT  
157441 TTATTTTGAGACAGAGCCTCTCTGTCCCCAGGTGGAGTGAAGTGATGCGATCTGGCTCACTGCAAGCTGCCT  
157521 CCCGGTTCACGCCATCTCTGCCCTCAGCCTCTGAGTAGCTGGGACTACAGGTGCCACCACGCCCTGGCTAATT  
157601 TTGTTATTTTAGTGAAGACGGGCTTCACTGTTAGCCAGTTGGTCTCGATCTCCGACCTCGTGTACCGTCCACCT  
157681 CGGCTTCCCAAAGTGAATTACAGGGTGAGGACCCATGCCGGTGGAGATAAATTATAATTCACTATAGTTACAT  
157761 TTATGTTTCTCTAGGTCTCTCTTCTGTAATTAAATTAAATTAAATTAAATTAAATTAAATTAAATTAAATT  
157841 GCGCGATGGCTGACGCTTGTAATCCAGCACTTCGGAGGCCAAGGTGGGATCACTTGAGGTCCGGAGTTCAAGACC  
157921 AGCCTGCCAACGTGGTAAACCCCGTCTCTACTAAAATTACAAAATTAGCTGGTGTGGCTGTGCCTGAAATCC

KNSL1\_6i.1

158001 CAGATACTCGGTAGGCTGAGGCAGGAGAACTGCTGAAACCCAGGAGGAGAAGTTCACTGAGCTGAGATCATGCCATTG  
158081 CACTCTAGCCTGGCAATAACTCTCAAATAAAATTAAATTAAATTAAAGATACTTAATTCTTCTTAAAGTAACATGAAAG  
158161 TACAAAGAAGAAAATTGAAACTTACCAAGATTCTCTGTCAATTGTCAGTGTATTAACAAACATAATAATGTTCAAA  
158241 GCCATTGGATACAGAAAGAATGCTTGGTCATCTGTATAATTCTTCCCTAAGATAAAAAGCACAGTATTGTT  
158321 TGTTTTTTGTTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGAGAACAGCGTCTCAGTTGTCACCCACCTGAGCCTCCAGG  
158401 TGGAGTGCAGTAACCTAACATGGCTTACTGCAGCCTTGCCAGTAAAGTGCCTCCACCTGGCTGAGCCTCCAGG  
158481 GTAGCTGAACTGTAGGAGCGTGCACCACGCCAGCTAATTAAATTCTTGTAGAGATGATGGTCCCACACTGTT  
158561 GCCCAGGCTGGTTGAACTCTGAGTTAAAGTGACCCCTCACCTGGCCCTCCAAAGTGTGGGATTACAGGATGAG  
158641 CTACCACCCCTGGCTGAATATCACTGTTACTTTGCTGTTAGGGGATAGGAGTCATCTATTCTGATGACAGTCTCAAAG  
158721 TAGTGTTTAGTAATCATGCTGTTACTTTGCTGTTAGGGGATAGGAGTCATCTATTCTGATGACAGTCTCAAAG  
158801 CAGAGAAGTACTTGTGATGTACACAGCTGACATGGATGGAAGAGTAAACTATGCTTACCTGGTA

KNSL1\_6i.2

158881 CCATTTGAATTATGTAATGACATATTCAAATGGTTTATGAATAGAAGATGATTACAAGCCATCTCTTCTGACAT  
158961 ACCAGGCAACTGTTGACCCACCCACATCCAGTTCACTGAGGTGCTCAGGATCTAAAGTCTTCTAGAGAGCTCTTA  
159041 TTGATGCCCTTTGCAAGGCACTAGATATGAGAAAACAACTCTAACTGTTCTATCTCTATCTCTTCTAACT

rs2275220

159121 ATTCTTGATATCTCTGCTGATGTTATCTCTACTCATGTGGATTAGATCTTCTTCTGTTCTAGTATTGAG  
Exon 7

159201 AAGCAGCAAATGCTATTACATTATAATGACTGGGCAACTGATATTGTTCTAGTCGTTCCACTCAGTTCTCTG  
Exon 7

159281 TTACAATACATATGAAAGAAACTACGATTGATGGAGAAGAGCTGTTAAATCGGAAAGTTGAACCTGGTAAGCATCCAC

KNSL1\_7i.D+55

rs2275219

159361 CTTAATACTACTGTTCACTCTAACACCTTATAGAGCAGCTGAAATTGCTCTGAGACAAAATTGCTGCGTAC  
159441 TGGGTGATTAGCTTGAGTGGGAGAAGAAATTGTTAATTACAGAAAAATTGCTGCTGGCGATTTAATACATTATG  
Exon 8

159521 TATCCTGTGACAATGAAAGTCTTGAATCCAAATCCAATAGACTCACTTTTATTAAATTAAAGGTTGAT  
Exon 8

159601 CTTGCAGGAAGTGAACATGGCCGTTCTGGAGCTGTTGATAAGAGAGCTGGGAACCTGAAATATAAACTAACCT  
Exon 8

159681 GTTGACTTGGGAAGGGTCATTACTGCCCTGTTAGAAAGAACACCTCATGTTCTTATCGAGAACTAAACTAGAA

FIG. 6AQ

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases  
Serial No. To be assigned Applicants: Becker *et al.*  
Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B

Exon 8

159761 TCCTCCAGGATTCTCTGGAGGGCGTACAAGAACATCTATAATTGCAACAATTCTCTGCATCTCAATCTTGAGGTA  
159841 AGCCCTTTGAAGGAAGCTGCAAGTGTAGTAGCTGTAATTCTTATTTCGGCTATTATATAATTAAAAGTTCAATTFACTAG  
159921 GATGGACACAGTACTCACACCTGTAACCCAGCACTTGGAAAGCTCAGGGGGCGGATCAGTGGAGCTTAGGAGTG  
160001 TGGGCAACATGCCAACCCCTGCTCTACCAAAAATACAAAAAATAGCTGGGTTTGGTGTGTCACAACGTGGTCCCG  
160081 CTACTTGGGGGCTGAGGTGGGAGGAATCACTTAAGCCTGGGAGGCAGAAGTGTGATTAAGCTGAGATCATGCAACTACAC  
160161 TCCAGCCTGGTGGCAGAGGGAGACCCATCTCAAAAAAAAAAAAGTATGTATAAAAAAAACAAAAGTATGTGCTATA  
160241 CAC  
160321 TTTTTTTTTTTGAGACAAATCCCCTCTGTGCCCCAGACTGGAGTGCAGCGATCTGGCTCACTGCAACCTCC  
160401 ACCTCCCAGGTTCAAGCGATTCTCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACCACGCCACCTA  
160481 ATTTTTGTATTTTAGTAGAGACGCTGGTACCTTGTGGCAGGCTGGTCTCAACCCCTGACCTCAGGTGACCC  
160561 CGCCTTGTCTGGATTACAGGTTACACGGCTGCCCCACTACTCAGCTACGCTTCAGCTTCATTCTATGCTATAATGT  
160641 AAAAGAATCTGGACATTGCAATTAAGGAAATATACAGGAGGACACTCTGCAAGAAGTTATCTTTCTCTGGAGAGTT  
160721 TTTAACCTTAAAGGCACTTTCTTAATGGCTTTCCACAGCTTCAAAAGAAAATGCTGTGGTCAATTAGCAGTGGG  
160801 TGTTGTATGGAGATTTAATTGAGGACTTAAAGCAGGCCAAGTGAATGCTCGCTAGTGTGAGAGGCTGCTTAGAGAAC  
160881 ACTGAGATGCCATGGATGTGAGAACAGAGGAAAACCAAGAAGAAGTAAACAAAGATGCTAAATGTACGCTTATT  
160961 TATTGCTATCATCTGCCCTAAAGGAAATTTTATTATTATTATTATTACTTTAGAGGTAGAGTCTCATACTGTT  
161041 GCCAAGGCCGACTACAGTAGCATGATCATGGCTACTGCAACTTAAATTCTGGACTCAAGTGATTCCCCAACACAG  
161121 CCTCCCTCTGAGTAGCTAGTACTACAAGTGTGAGGCCACCAGGGCTGGCTAAGTTTTGTTTTGTTAAATAAGAGA  
161201 CAGAGGTCTCACTATGTGCCAGGCTGGCTTGAACCTCTGCCCTCAAGGGATCTCCTACCCCTCAGCTCCAAAATGC  
161281 TCGCATTAGGCATGAGGCCACCTCACTTCACCTAAATGGATTTTAAAGCTTTTAAAGGCTTACGGCAGGGTGGCTTACG  
161361 CCTGTAATCCACACTTGGGAGGCTGAGGTGAGTGGATCATCTGAGCTCAGGAGTTCAAGAACAGCAGCTGAGCAACATG  
161441 GTGAAACCCATCTACTAAAAAATACAAAAAATTAGCTGGCATGGTGTGCGCGCTGTAATCCAACTACTCAGGA  
161521 GGCTGAGGGGGAGACTGTGCTGAAACCCAGGAGGATGAGTTGACTGAGCCGAGATTGCCCATGGCACTCAACCCCTGG  
161601 GTGACAGAGTGAGACTCTGCTCAAAAAAAAGCTTTTAAAGGTGTCCTACAGCTCCCTCATTAACCC  
161681 TTTGTGAGATTAAATTCACATACCAAAATTCACTGATTTAAACTATATAAATTAAATTCAGTATAATTACAGA  
161761 GTTGTCCAACCATCACCACAACTTAAGTTTGAACTTTCATAACCTCAGAAAGAACCCGTGACCCATTGAAATTACT  
161841 TTTCGATTGCCCCACTCCCTACGCTACTGCTTTTGACATTTGCTATCTGCTTCTGCTATTTCATATAAAATGAA  
161921 TTACGTAATAGGTAGTTTGTGACTGGCTTCTTCACTTAGCTAGCATATAAGGTTTCAAGGTCATCTGTGTTGACCA  
162001 ATACTTTATTCTCTTTTACAGGTGAATTATTATCTACTATGTTGATGGGATTTTGTTTTGAGAT  
162081 GGAGTCTCGCTCTGTGCTTAGGCTGGAGTGAATGGTGTGGTTGACTCACTGCAGTCTCGCCACCCGGGTTCAAGT  
162161 GATTCTCCGCTCAGCCTCTGAGCTGGGATTACAGGCCACCCATCGCTGGCTAATTGGTATTTGTTGCT  
162241 GAGACAGGGTTTACCATGTTGCCAGGCTGCTCGAATGGCTACTTGCACCTCATGATTACCCCGCCCGGCTTCAAAGTG  
162321 CTGGGATTACAGGTGTGAGCCACTGTGCCCCGGCTGATATAAGGACATTGTTTATTCTACACTTGGTAGATTGAGC  
162401 TTTGTGGTTTTTTGTTTGTGTTTTGTTTTGTTTTGAGACAAGGTCCTCTCTGTGTTGGCTGGAGTGGCAGT  
162481 GGCACATTCACTGTAACCTCAACCTCTGCCCTTAAGTGAATCTCCACCTAGACTCCAAAGTAGGTTGGGACTATAGGC  
162561 ACATACTATGCCCCGTAATATTATTATTATTGAGAACAGGATCTCCCTATGCTGCAAGGCTGGCTCGAA  
162641 TTCTGGCTCAAGTGCACCTCATGCCCTGGCCTCAAAGTGTGCGAATACAAATGTGACCCATCATGAGTTAACAA  
162721 TAGTCTAAAGGAAATTATCTAAGGGTCAAGACTCTGAAAATTGAGAGAACGGGAAAGGATTGAAACAATTCCCTTT  
162801 TAAAGGTTGGCATAGTGGCTTAATGACTAGATTTAAATTAGATATAACTATAAAATTACTTGTAGTTTATA

Exon 9

162881 TAACATATTTAGATAACAGAACTACATTATTCTCACAATATCTTCAGTAATTGACCTTCCATTGACAGGAAACT  
Exon 9

162961 CTGAGTACATTGGAATATGCTCATAGAGCAAAGAACATAATTGAAATAAGCCTGAAGTGAATCAGAAACTCACCACAAAGC  
Exon 9

163041 TCTTATTAAAGGTAACGTGAAATTGTAGAGTAATGTAATTCTGGTTGACAAATGTCAGAAATAAGAAACTGAACTGGGA  
163121 GATAATAGTTAAACAGATTGTTAAATTGCCCATGGAGGCTTTTATATAGTGAATTAAACTAAATGCTTACATGTT  
163201 AACATATTCTAACTGCTAGTATGTGACTTTACCAACTTTCAACTGAGTTGGTACTCTAGCAAATTTCATT  
163281 TATTTACATTACAAATTATTATTTAATTGCAATTGGTGGAGTATAATTACATGCCATAACATCCACCTAATGTAACCCATA  
163361 CAATTCAATGATTATAGTCAGCTGGAGTATAACCCAGCAGTACTGTTGAGATTTAGAAAATTGTTATCACTATC  
163441 CAGTTTCCCTTGTCTCTTACAATCATGTCGCCACTGACCTGTTCTCTACAGATTGCTTCTGGACGTTCC  
163521 TATAAACTGAAATCATGTAATTGTCATTGGCTACTAGTTCTTTGCTAGCATAACCAATTGGGGTTCCACTTATA  
163601 ACATGTATCAGTAGTTATTGCTGAAATAGTATTCAATTATGCTGATAATGACATTGGATCATTTTC  
163681 CACTAATGCCCATGTGACATTCTGACATGTTGCTACATGCTTGTGATGCTGTTCATTTCTGGGTAGATATCTAGGGAT  
163761 TTAATTCTGGGTTGATAGTAAGTTATGCTCTAAAGAACATTCTCATGAGCTGTCACCACTTGTATTTCACACCA  
163841 GTTTATGAGGTCTCAATTCTCCACCTCTTAAACACTTGTATGGTGGCTTTTAAATTAAACCAATTCTAAGGA  
163921 GTATAAAATGGTACTTCAGTACGGTTTTGTGTTGTTGTTGAGATGAAGTCTCGCTCTTCAAC  
164001 AGGCTGGAGTGCAGTGGCACGATCTGACTCAGTGCACACCTCCGCTCCAGGTTCAAGTGTATTGACCTCAGTCTC  
164081 CGCAGTAGCTGGACTACAGGTGTGCAACCCAGCTAGCTAATTGTTGACTTTAGAGATGGGGTTTACCATG

FIG. 6AR

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

164161 TTGGCCAGGCTGGCTTGAACCTCCTGACCTCGTAATCTGCCCGCCTCAGCCCTCCAAAATGCTGGGATCACAGGGCTGAG  
164241 CCAATACGCCCTGGCCCCAATATGGTTAAATTAGCATTCCTTAATGACTAATGATGTTGAACATCTTTCTTGCTGCTTA  
164321 TTATCTATTGTTATCTTTTGCTGAAATGCTATTCAAATGCTTGGCCAATTAAATTGGTTGCTTATAAGT  
164401 GTAAGGAGTTCATGAGTAGATAACAGCCCTAATGAGATATGATTTGCAAATTTCTCCAGCTGGCTTACTT  
164481 TTTCCCTTCCTGATGTTTTTTTTAAATAAAAGTTTGTAGATTGAGATGATTAGATTCACATGCAGTTATAA  
164561 GAAATAATACAGAGAAAACAGGCCAGGGCAGCTGGCTATGCCGTAATCCCAGCTTGGGAGGCCAGGTAGGGGA  
164641 TTGCTTCTAGCATCAGGAGTCAGAGACCAGCCTGGCTAACATAGTGAACACCTCATCTCTACTAAAAATACAAAAATTAGCT  
164721 GAGCGTAGTGGCACGTCGCTGTAATCCCAGTTACTCAGGAGGCTGAGACAGGAGAATTGCAACTCGGGAGACAGGTT  
164801 GCAGTGAGCTGAGATCGAGCCACTGTACTACAGCCTGGGAGCACAGTCAGGCTCTGTCAGTCAAAAAAAAAAGAAAA  
164881 AAAGTAAATAATACAGAGAAAATCCTTGTCAACTTGTGAACTATAAGAATTTACCCAGGGATATTGATATTAAACA  
164961 ATCCACTAATCTTCCCCTTACATGCTATGTTAAATTCTAGACAGTTGTCACATGTATAGGTTCAT  
165041 GTATTACACCAACAAATCAAGATACTGAACAGTTCCATCACCACAGGAGCCCTCATATTGCTCTTTGTAACCACCTTT  
165121 CTGGTACCCACCATCTCTCTTCTGGTACCCAGTAACCTGCTCTCATCTTCAGAAGCTGTTATTGATGGAAATCATA  
165201 CATTTATGTAACAGTTGAGATTGCCCTATTATTATTATTATTATTATTGAGATGCAACTCTGTTGCCAGG  
165281 CTGGAGTGCACTGGCTGCACTCAGCTCACGCAACCTCCGCCCTCCGGCTCAAGCAGATTCTCTTCACTCTCCA  
165361 AGTAGCTGGGATTACAGGTGTTGCCACCATGTCAGATAATTGGTGTATTAGTAGAGACGGGTTTACAGGCTTGG  
165441 CGCCAGGCTGGCTCTAACACTCTTGACCTTGTGATCCACCCACCTTGGCTCCAAAGTGTGGATTACAGGCTTGG  
165521 CACTGCACCCACAGCAGTCTTCTTTAGTACTAAGTACTAGTACTAGTGTGAGTATGACCATACAGTTTGTA  
165601 ACCATTACITATTGAAACATATAGCTAATTCTGTTTCTGTTATTACAAACAAACTGCTATTGACATTCA  
165681 ATAGGTATTATGTAACATAAATTATTCTGGGATAATTGCCAAAGAGTGAATTGCTGGGTTGATAATAATT  
165761 GAATGTTTATTATTTAGGGAACTGGCTGTTTCAAAATTGGCTGTATCTTACAGTGTATGAGTGTATCTGATTCTT  
165841 CACATCCTCACCAAGCATTTGGTGGTGAATTCTTATTTAGTCTGATAGTGTGGTGTAGATAGATATCTCAT  
165921 TGTTGGTTTTAACTGTTAAGGCTAATGATGTTGAGTGTCTTTTAATGCTGTTATTGATGTTTATATAATT  
166001 TATGTATATATAGCATATACATATTGATATTATATAACATATACATGTATATATATATTGTTCCATTATAA  
166081 TTTATTTGGGAAATCTGTATATTGCTCTGAGTTTACCATAGTACTTTTGACGTGTTCTGTTCTGTTCTGTA  
166161 TTTCTCTTAACTGCGTAGCTGAATCTGGGCTTGAATTAACTTCAACTTGTGTTATTATTGCGAAAACAA  
166241 TCATAAGCAGTAGTGTCTCTTCAATTAGAATCTGTAATGTCGTTCTGTTCTGTTTTTTTTGAGA  
166321 CGGAGTCGCTCTGTTGCCAGGCTAGACTGCACTGGTGCCTACTCGACTGCAAGCTTCACCTCCTGGGTCACA  
166401 CCATTCTCTGCCTTACGCTCTGAGTAGCTGGGACTACAGGCCCTGTACCACGCCCGCTAATTGTTGTTATT  
166481 GTAGAGACAGGTTTCACCATGTTAGCCAGATACTCTGATCTGGCTGAGCACATGCTTGGGCTCCCAA  
166561 GTGCTGGGATTCACAGGCCGAGGCTGGCAGGCCCGCTGGGAGGTTAGTCTTATAGGAAAGGCCAGGACATGCTGATT  
166641 AATTCTCTTAACTTCCCCTTAACTGAGATAATGAGTTGGTTCTCTACGTTCTACTGCTATTAAACTCCTAGATT  
166721 AACATTGGTGTAAACCCATTGAGTTGCTCTCACCAGTGTCAAGTGGCTCATCTTAGGCCAGGGTATGTTAGT  
166801 CTGTTTCATGCTGCTGATAAAAGACAGCCGAGACTGGGCAATTACAAAGAAGGTTTATGGACTTATAGTTCC  
166881 ACATCTGCCGAGGCCCTCATATCATGCCGAGGCCAGGACACAATCTTACCTGCTGGCTGCCAGGCCAAA  
166961 GAGAGAGGCTGTTGAGAAACTCTGTTCTAAACCATCAGATCTGAGACCCATTCCCTGTAATGAGAACACC  
167041 ATGGAAAAGATCCGCCCCACGATTCAGTCATCTCCACCAGGCTCCCTCCGAACCGCTGGGAAATTGGGAGCTACAA  
167121 GATGAGATTTAGTGGGACACAGGCCAACCTATTAAAGGGCTACATCTCAAGTGGCTACTGAGTCCTTTGATT  
167201 AACCTAGTAGGCTGGCTTAGCTTATCTCTTGTCTTATGCAAGAAGTGTCCGTATTCTGTAATTTCTGCC  
167281 CAGTCTGGAATCAGATGCTTATAAGGAATCTGGTCTATTAGTGTGAAATTACTCCTACCAACCTGGGACTGGAG  
167361 GTTGTGGTTTCTTGGGAAGTCCATATTCTAGAATGACTGTATTTAAAAGGAGCTTGTGAAAGACTTATTCTAAAC  
167441 AAATTAAATATTGATTAAAAGTATGGTTATAACTTTTATCATACTCTTAAAGTTTAAAGACATAAAAGGCTAATC  
167521 TTACATTATTGTTGCTGATGCTTCCAAACTGAAATGAAAAAAAGTACTAAACTGACACCTACAACATTCCCTTGTG  
Exon 10  

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167601 AGGAGTATAACGGAGGAGATAACGTTAAACAGAGATCTGTCGAGCCGTGAGAAAATGGAGTGTATATTCTGAA  
Exon 10

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167681 GAAAATTCTAGGTAAAGCCCTGGCTATGGAGTTAATTCCAAGAATAAGCATTTCTGATAACAGGCTATTGAAAGTAAA  
167761 CTTATGTAACGACTAAGTAAAATCTTATATCCAGTGCCGATAAAATCTTCTTTGTTGTTGTTGTTTCTTGTGAG  
167841 ACAAGGTCTCGCACTGTCACCCAGAGCTGGCAGCATGTCAGGCTGCAACATCTGGCTACTACGCTCTGACTCTGGCTCAA  
167921 GCGATCTCTCGCTCAGGCTCCAACTGAGCTGGGATTATAGGCCATGCCACACCCCTGCTAATTGTCATT  
168001 TGTTAGAGACAGGGTTTACCATGCTGCCTACGGCTCTATTGTTGACATTAACAAGTAGCTATCAAACACTTTAA  
168081 AAATCTTTACTAACTTTAAATTAACTCATTAATTGATGTAAAGTTCAAGAAGAGTACAAGAGAGGTTTCTGTT  
168161 TCTTCACCCAGCTCCCTCACTGGTATCTCTTAAATAATTGATGTAAAGGCTGAGCTGGGCTCACACCTGTGAAT  
168241 CCCAGCAGCTGGGAGGCCAGGCCAGGAGCATCACCTGAGGTTGGGAGTTGAGATTGCTGACCAACATGGAGAAACC  
168321 CCATCACTACTAAAACACAAAATTACCCCTGCTGGTACATGCCCTATCATAGCTACTCCAGAGGCTAGGCCAGG  
168401 AGAATTGCTGAAAGCTGGGAGGCCAGGTTGTTGAGGCCAGATCGGCCATTGCACTCCAGCTGGCAACAAGAGTG  
168481 AAACTCTGCTCAAAAATAAGTAAAATAATAGATAAAATAAAAATAGGCCGATAAAATAAAAATAGGCTGGGCC  
168561 CGTGGCTCACGCCCTGAACTCCAGCACTTGGGAGGCTGAGGCCAGGAGATCACCTGAGGCTCAGGAGTTGAGACAGGCC  
168641 TGGCCAACATGGTAAACCCCGTCTACTAAAATAACTAAAATTAGGCCAGGAGCTGGTGGCAGGCTGTTGTAATCCAC  
168721 TACTCGGGAGGCTGAGGCCAGGAGAATCACTGAAACCTGGGAGGCCAGGTTGCACTGAGCTGAGATAGCAGCATTGCACT  
168801 CCAGCCTGGGAAACAGAGCGAGACTTCATCTAAAAAGAAAAGAAAATAATAAAATAAAAATAATT

FIG. 6AS

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Title: Genes and Polymorphisms on Chromosome 10

Associated with Alzheimer's Disease and Other

Neurodegenerative Diseases

Serial No. To be assigned Applicants: Becker et al.

Date of Filing: 6/18/03 Attny Dkt No. 37481-330B

168881 ATAGTACAATATCAAAGCTGGGAAGTTGACCTTGATACAATATGTGTATTAGTTGTTCTTATACTACTATAGAGAACCA  
168961 CCTGAGACTGGGTAAATTATAAAGAAAAGAGGTTAATGGCTCACAGTCCATAGGCTGTACAGGAGGCATGGCTGGGG  
169041 AGGCTTCAGGAAACTTACAATCCTGCTAGAAGAGCTAAGGAGAAGCAAGCACATAACATGGCGGCAGGAGAGAAA  
169121 GTGAAGAGGAAAGCAGCTGCACACTAAACACAGATCTGTGAAACTCATGAGAACAGCAAGGGGG  
169201 AAGTCCATTTTATCACTCGGTTATCTCCATCAGGTCCTCCAAACATGTGGGATTATAATTCAACATGAGATTT  
169281 AGTGGGCCAGAGAACAGACCATATCAAGATGTGTATATAGTAGTTCTATGCCATTGTCACITGTATAGATTGTGT  
169361 AACCAACCAGTCAACAGATACAGAACTATCCATCATCACAGGATCTTCTTGTCTAATTCACTGTAGTCACACTCAC  
169441 CTCATCTTTTCATGATTCCTAACCCCTGGCACCAACTAACTGTGTTCACTTTTAAAGCCCTGGAGTAATTGTTCAAAG  
169521 GAAAGCTTTATTGAGGCCCCATGTATAAAACAAACAATAAAACAGGAAAGAAGGCAAGTGGATGCTA  
169601 AGGACTATAACTGAAAATTCTGTGTTTATCTTGAAAGATATTAGGAAGCAAGACTTCACAGAGCATTTTAA  
169681 AAGTTAATAGTCAAAAGATATTAGACCTAATAATAACCAAGAACGATTTAGTATAACTTTTACTGAACCTTTTGTA  
169761 GATGTTAACACTCTAATAGTATAATAACATTTAAACTAGTTTCTGTGTTACTTCAACTGTCAATAATGTATT  
169841 CCATGAATGTAAAGTGCCTAGATCAGAACATGTAAGGTTGCTGTAGTGAACAGTTACCATCAACTATGGAGG  
169921 TGTTCTTTTTTGATGCTTTAGAAGTAAAAATAATTTGCTGAGGCACTCAATCTGGCTGTAGTCTTAAAGATGATAT  
170001 TGATTAITGGAGGCTTCATCTTCTGATTTTATTTTGAACTTAAGAAGTAACCTTGTGTTTCACTGTGAGAATTGTTCTATA  
170081 GATTGAAAATAGTGGTTCTCTTCTTTTTAACTTTTATTTTGAACTTACATGTCAGGACTACATGTGAGAATTGTTCTATA  
170161 GATATATGGCATTAACAGGAGTTGCTGTCATATAATTATTTGTCACCCAGATAAACCACTAGAACCCGATGGATAGCTT  
170241 TTCAATCCCTGCTCTCTTACCCCTAACAGGCCCCAGGTGACTATTGTCCTCTCATGTCATGTC  
170321 CTCAGGGTTAGCTCTACTTATAAGTGAGAACGTTTGGTGTGTTGGTTCTGTTCTATGTTAGTTGTTAGGACAAT  
170401 GGCATCCAGCTCCATCATGTTGCTGCAAAAGAACATGATCTCATTCTTTTTTTTTCAGGACACTCTTG  
170481 CTCTGTACCCAGGCTGGAGTATAGTGGTGTGATCTGGCTACTGCAACCTCTGCCTCCAGGTTCAAGTGTCTCCT  
170561 ACCCCCAGTCCCCGAGTAGCTGGGATTACAAGCACCTGCCACCATGCCAGCAAAATTTTTTTTAAGTACAGATGG  
170641 GGTTTACCATGCACCATGTTGCCAGGCTGGCTTGAATTCTGGCTCAAGTGATCAACTCACCTGGTATCTGGCG  
170721 TACTGGGATTACAGGATGTCGCCAACGGCCATCTTCTCTTATGCTCTGTTAGTATTCCATGCTGATAT  
170801 GTACACATTTTATCCAGTCTGCTGTTGGATGAGTAGCTAGGTTGATCTCCAGTCTGCTGTGAATAGTGT  
170881 TGATGAAACATATGTGTCATGTTATGGTAAACAATTATTTCTGGGATATAACCACTAGTGGATGCT  
170961 GGCTCAAATAGTATTCTGTGTCGTGGTTTTTTTTTGAGATGGAGTCTGCTGTGTCAGGGTGGACT  
171041 GCAGTGGCACAATCTGGCTCACTGCAAACACTGCCCCCAGCTCAACCAAGTCTCCACCTGGCTCCAAAGTATCT  
171121 GGGATTATAAGGCCACCCACCGCAGCTGGCTAATTTTGTTAGTGGGTTTACCATGTTGGCCAGGC  
171201 TGGTCTCGAACCTCTGACCTCAAGTCTGCCCCACCTGGCTTCAACCTGGCTGTTACAGGTGTGAGGCCACCATGC  
171281 CCTGCCGTATTCTGTTAAGTCTTGAGAAGTCGCCAAACTACTTCCATAATGCCACTAATTCTCTAGTA  
171361 GCATATAAGCTCCCTTCTCCAAACTTTACCATGTTTATTTTGTTTAAACTAGCCATTCTGACTG  
171441 GTGAGATGGTTCTCATTGTTGATTGCAATTCTCAACAACTATGTTAGTAAACATAGTTCTATGCTCTT  
171521 AGCCACATATGTCCTCTTTGAAAATGTCACATCATTTGCCCACCTTTTTTTTGAGACACAGTTCACT  
171601 GTTGCCCCAGGCTGGAGTGCAGTGGCACGATCTAGCTCAGCTCAGCTCAACCTCCACCTCTGGGTTCAAGCAGTCTCCTGC  
171681 CTCAGGCTCCGAAGTAGCTGGGATTACAGGTGCTGCCACCATGCCGGCTAATTGTTAGTGGAGATGGGAT  
171761 TTACCATGTCATGCCAGGCTGGTCTGATTCACCTCAAGTGTCTGCCACCTGCCCTCCCAAACCTGGGATT  
171841 ACAGGTGTTAGCTACCGTCCCCGCTGGTCTATGTTTACTAGTAAAGAACCCATAGTCTGTCTTACAGTCC  
171921 TAGATGTCATCAACATTTAAGCAGACTTCTGATACACAATTGTTACTAAAATCACTACCTCCTATATAACCAAT  
172001 AATGTCCAAGCTGAGTGCACAAAGAACATGCAATTCCATTCAACATGCCACAAAAACAGTAAAATACCTAGGAATACAA  
172081 CTAACCAAGAGGAGTGAAGGATCTACGGTAAAGGAAATTAAACACATGCTGAAAGAACATGAGTTGACACTAAACAAATG  
172161 GAAAACCTTCCATGTCATGGATAAGAAGAACATAAATTGTTAAAGTGGCCATACACCAAAAGCTATTACAGATTAA  
172241 ATGCTGTTCTCTCAAACATACCAATGACATTCTCACAGAAAAACTATTGTTAAACATGTGGAACGGAAAGAGCC  
172321 CAAATAGCCAAGCAGCTAAAGCAAAAGAACAAAGCTGGAGGCATCGCATTACCTGACTTCAAACTATACTACAGGGC  
172401 TACAGTACACAAAACATGTCAGTGGTACAGGAGAACAGCACAGAACATGGAAAGCAGGAGAGGCCAGAAATAAAG  
172481 CCACACACATGCCATCTGATCTGGCACAGAACATGCAATGGGTTAAACACTGCTGTTCAACAAATGGTGTGGGAT  
172561 AACTGCCATCTGTCAGAACATATTGAAACTGGACCCCTTCTTAAACGCCATACAGAACATCAACTAACAGATGGATT  
172641 AAAAACCTTAAATGTAACACCTAAACAAAAACCTTGTAAAAACCTAGGTGTTTGTCTCTAATACACATGAGGCATA  
172721 ATCTGAGATGTTCTGAAAAGCTTGGAAATTAGTACAGTGTGTCAGAGAACATCACAAAAACTACAGGCCAA  
172801 CATTAAAAACAGGATAATGCTTATTAAAGCCAAGCTTAAAGACATTAAACCATTTAAACCATATAAAATCATCTCATCCATAC  
172881 AGTAACAACTGTTGATTACCCCTGGCATCTACTATAAAAGACATTCAAAATAATCCCTTTACATAAAAGATCTATT  
172961 TCTATTATTTATTTTATTTTATTGAGACAGAGTCTCAGCTGTCACCCAGGCTGGAGTGCAGTGGCG  
173041 CATCTGGCTACTGCAAGCTCCGCCCTCTGGGTTCAAGGCCATTCTCTGCCCTCAGCTGAGTGGAGTACAG  
173121 GTGCCGCCACCCAGCCCTGCTTAATTGTTGTTGTTAGTAAAGACAGGGTTTACCATGTTAGCCAGGATGGCT  
173201 TGATCTGCTACTCTGATCTCCCCCTGGCTCCAAAGCTGCTAGGATTACAGGGCTGAGCCACCGCCCTGGCT  
173281 TAGAAGATCCATTTTAATAAAAAGCTAATATATTTCATCAAAAGACTATTAGAATTACTCTCTTACAGCTCTT  
173361 CTAGCTTCTCTTCTGTTAGTCACAAATCTCTAGCTAATGCTGAAAGGAAATTGTTACCGGAAGAACATCTGTCATT  
173441 AGCATAATGTGAAATAGAAAATTGTTGGTTGTTCAAGAAGTGGAGTACAGGCCAAACATGGCTTACATTCTGAAACTGA  
173521 CTAATACTCAAGAACATCAGAGACCCATTAAAGTGGGTTTGGAAAGACCTGTCAGCTTGGCTTGGAAAGAACATCTCTA  
173601 TTTACTTTATGACTCTTGTGACTTCATCTGATATTGTTGTTGAATTAGAAATTAGTAACTCTTATAGATCTATCCCT  
173681 AACTCTTCTGCCATCCCTGTCTCCTTTGAAAAATATGACATCCTTTATAGATCTATCCCT

FIG. 6AT

**Heller Ehrman White & McAuliffe, LLP**

Sheet 98 of 113

# Title: Genes and Polymorphisms on Chromosome 10 Associated with Alzheimer's Disease and Other Neurodegenerative Diseases

**Neurodegenerative Diseases**

rs1573051

173761 AACATTATTAATGTTAAAGTTCTTTATGTTTCTTCCGGATCTTTTTCCCTGTGTGATACTG  
173841 CATTTGATTTATTTCTCAATGCTAGTGATTTGGCTGCCAATTAAAGATGGATTAGAACGTTCTACATGGGTGA  
173921 GGATATTGGACCTGTAAGTCACATAGATAAGAAAAGTGGTGTACAGTCAGTCTTAAAGTCTGGCTTCACAGATATCATT  
174001 CTFTTGTTGGATTTTCTCTTCTAGGCCCTAGTCAGTCTTCTAGAAAGATGGCCCGAGTTCTGGAGATTTTCT  
174081 AGCTGCTGCTATTGGTATTAGAGTGGGTATAGGGGCTGAGGATCCATTTGTATGTAGATTTACACTAAATG  
174161 CTCATTCTAGTCCCTAAACCTCTACAGTCCATGATGTTAGTGAAGTGAAACCTGGAAATTCTGCTGCAATTCCCTATA  
174241 GACTAGTGGCTGTCATGGAAAGTGGCTGGGGGACTGGTGTGGCTGGTGTGGTTTGTCCCCAGAGCACATTGGCAGA  
174321 GTTCACTGACATTTTATCATGATCTGGATGGTACTGAAACATCTCAAATGTCAGGACATCCCCAACATGAAGAA  
174401 TTATTTGATCCACTAGTGCTGAGGCTGAGAAACTCTGCTCTAGAGACTAATCTTGTCTCATGAGGGTTATGCGGTGG  
174481 GGTGAGAGTGGTGTGGTGTGCGTGTGAGCAGCAGGGGGTGTAAATGCTCTGTATACATACTTAACTCTCAGTTTTAA  
174561 CCCCTAAATCTTACCCCTCTCTCAAGATACCTGATGCCCTCAAGTCCCACATTCTCCAGCATCTGTCGGGCATATT  
174641 ATATTCCTGATCCCTGTAATTAGACACTTAGGTTGCAATTCTCTCTACTTCTAGGTATAGCTGGCTCTGTTA  
174721 GCTTTCTAGCTCTCAAAATCTGGAACACACATGCTTTCCCTCATAGCTAGGGATTCTAGTTCTAGGATTA  
CTGAGGTTCTAGTTCTAGGATTAATGAGGGCAA

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174801 GGGAAAAATTTCAATTATAAAACAAAGACAAGGAATATAATTGTTCTTGTAAATTGTATTATTGCTTATTGACAC  
174881 AGGTATCAAGTGACACTGGGTATCAAGTGATGGTATAAATGTTGCAAATGAGTTGTGTACCTGTCACATTGCTTA

174961 GAA'TACATT'TATAGGAGT'TAGAAAAAAATTTAACCTGTAACTCATATTAACCTTATTTAGAGTCATGAGTGAAA  
Exon 11

175041 ATTTAACCTGTCAGAAGACCCAGATTGTAGAATTGATTGAAAAAAATTGGTGTGTTGAGGAGGAGCTGAATAGGGTAACCA  
 175121 CTTAAAATCATTTACTGTTATGCAAAAGCAAATATTGAAAGAAAATTTCTAGAATGAAAGACTTAATATTTTCTCTT  
 175201 CAAGATTTTTTTTTAGACGGAGTCTCGCTCTGCACCCCCAGGCTGGAGTCAATAGCGTGATCTGGCTCACTGTAAAC  
 175281 CTCGCTCCTCCAGGGTCAGCGATTCTCCTGCTCAGCCCTCCCAGTAGTCTGGGATTACAGCTGTCGACCACCATGCCCTG  
 175361 GCTAATTTTTTGATTTTTAGTAGAGACAGGGTTCACCATGCTGGCCAGGCTGGTCTGAACTCCTGACCTCATGAT  
 175441 CTGCCCATCTCAGCCTCCAAAATGCTGGGATGACAGGGCTGAGCCACTGCAACCCAGCTCTCAGATTTTTGGAAAAA  
 175521 AAAAAAAAGATTTTTATTTGCTGACCCCTTACTGAAAGTAAGTTATCATGATTTTTACTATCATTAATCACATCAA  
 175601 AAAAGCTGACAGCTTATTAATAAAACATTACAAGAAAATTAACTGTAATTGTTGATTTGTATTGAAACTACAAAATA  
 175681 GTGAATGCTGAAGCAGTTTGTTAACATGTTTACAGATGAAGGAATACAGATATTGGAGAGACTGGATGTTAAATAAA  
 175761 AGTAATATAAACTAGGGTAGGCAAGAGGCTGACCTTCAGGGCCACCTCATATTAATACCTTTATTATTTTAA  
 175841 TTATTTTTTAGAGACAGGGCTTGTGCTGATGCCAGCCACTACAGTCTGAGTGGTCAATCATCTACTACTGCGCCTCAAC  
 175921 TTCTGGTCTCAAGCAACTCTCCTGCCGAGCCTCTGAGTAGCTGGACTCAGGCATGCATACCATGCCCCGCTTAATTA  
 176001 TTTTATTTTTTGTAGAGATGGACTCAGTCTCGCTATGTTGCCAGGCTGGTCTCAAACATATCCCGCTCAAGTGATCTCC  
 176081 TGCCCTGGCCTCCAGAGTGTCTGGGTTACAGGTGTAACAGGACCTTGCAGGCCACATTAACACTGTTATTCAAAATCC  
 176161 ATTGACAATGTTGAAGGAAACTGAAGAATTAACTACTACACCCAGACCTATTATTTAACTCAAAAGTGTGAGTAAGAT  
 176241 TACAGAAAGAACAGGATGACATATTGTGTTAACCTACGGGTAACCTCTAACACTTTGCGATGGAATAATTGTTT

### Exon 12

176321 CATTTTTCTAATCTTATGAACCTAGCTAGATATCCTACCAGCCAGCTAGCGTTTTAAATTCTTATATTAGGTTACAG  
Exon 12

176401 AGTTGTTATGGATAATAAAATGAACCTGACCAGTGTAAACTGACCTGCAAAATAAACACAAGAACTTGAAACACT  
Exon 12

176481 CAAAAACATTGCAAGAACTAAATTCACACTTGTAAAGAAGAATAATCACATCAGCTTGAAAGACTGAGGGAGA  
Exon 12

176561 ACTCTCATGTCGCCAGCAAGGGTTGCTCCCTGTGTAATTCTACATATAAAGTAGAGAACTGGTGAAGAAAAAACTTT  
176641 TCTGTGCTTAAAGCTTAAATTATTCGTTTATTCTACCCCCAAATGGTATTCTGTCCTCCTGGAGTTTGAAATAGAACATAA  
176721 TCATCCATGTTTCTCACTGGAGATGTCGACTTATGAAAAAAACTACTCTGTCCTGGAGTTTGAAATAGAACATAA  
176801 CTTAGCTGGACTGGTGGCTCACGCCATTAAATCCCAGCATTGGAGGCCAAGGTGGTGGATGACCCTGAGGTCAGGTG  
176881 TTGGACAGGACCGAGCTGACCAACATGGGAAAACCTGTCCTACTAAAAAAATACAAAAAATTAGCCGGGCTGGCATGCCT  
176961 GTAATCCCAGACTCTGGGAAAGGCTGAGCTGGAAATCATTTGCAACCCGGAGGCTGGGGCTGGCATGCCT  
177041 CACCATTCGCACTCCAGCTGGCAACAAGAGCGAAACTCCGTCCTCAAAAAAAAAAAAGAAAAATAGAACATAACT  
177121 TTATAAATATTTTGATGACATTAGAATAGTGTGCTGTGATGCTTTTCTTGTGGGATGAATTCAACCTTAATTAGTC  
177201 ATTAAAGCATTTAGTATGTTCTGTCAGGCGATGGTGGCTCACCGCTGAATTCGACACTTTGGGAGGCCGAGGTGGTGG  
177281 ATTGCTGTGAGCTTAGGAGCTGGACAGACCCGTGACCAACATGGTAAACCCCATCTCTACTAAAAAAATACAAA  
177361 AATTAGCCAGCGTGGTGGCACATGCCTATAATCCCATCTACTCAGGAGGCTGAGGCAAGAGAACACTTGAACCCAGGA

FIG. 6AU

**Heller Ehrman White & McAuliffe, LLP**

Sheet 99 of 113

**Title: Genes and Polymorphisms on Chromosome 10**

**Associated with Alzheimer's Disease and Other**

**Neurodegenerative Diseases**

**Serial No. To be assigned Applicants: Becker *et al.***

**Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B**

177441 GGCAGAGGTTGCAGTGAACCCAGATCATGCCACTGCACTCCAGCCTGGTAACAGAGCAAGACTCTGTTTCAGAAAAAAA  
 177521 AAAAAAAAGAATTAGTATGTTCTGTGAAAGATGTTGAAAGTATTAAATTTTTTTTTGAGACGGAGT  
 177601 CTCGCTCTGCCCCAGGCCAGTGGACTGCCAGTGGCAATCTGGCTACTGCAAGCTCCGCTCCGGTTCAC  
 177681 GCCATTCTCTGCCAGCCTCCCGAGTAGCTGGACTACAGGCCGCCACCGGCCGGCTAATTGGTATT  
 177761 AGTAGAGACGGGGTTTACCTTGTAGCAGGATGGTCTGACCTCATGATCCACCCACCTCGGCCAA  
 177841 AGTCTGGATTACAGCGCTGACCACCGGCCGGCTTAAATTGGTATTAGTGTATT  
 177921 TCTTGCTTGTAGGCCAGGCTGGAGTGGCAGTGCATCTCACTGTAACCTTGCCTCCGGGTTAACGGATT  
 178001 CTCCGCCAGCCTCCAAGTAGCTGGATTACAAGCCCTGCCACCACCCAGTAATTGGTATT  
 178081 CTGGGTTTACCATGTTGCCAGGCTGGTCTCAAACCTCTGACCTCAGGTGATCCACCTGCCCTAGGCCCTCCAGGGTT  
 178161 GGGATTACAGGTAAAGCCACCCAGGCCATTAGGTTACTGAGGAAATAGTAGAAGACATAGAAGGAAAAAAATT  
 178241 TCTGAGGAAGCATATAATTGCAATTAACGTTTCTTGCTGTAGATGGCTACAGGAAGGAAATAA  
 178321 ACATTAACGGCATCTGGATAATTAGCATGAGTTAACCATTTCTGTGATACAATGCTAAATTGACTTTTT  
 178401 TGAGACAGAGTCTCTCTGTCAACCCGGCTGGAGTGGCAGTGGCACAATCTGGCTACTGCAACCTCCACCTCCAG  
 178481 GTTCAACCAATTCTCTGCCAGCCTTGTGAGTAGCTGAACTACAAGTAGTGTACCAACACCCAGTAATTGTTGTA  
 178561 TTTTAGTAGAGACGGGGTTTACCATGTTGCCAGGCTGGAAAATTACTAGTTCTATCAAGATAAAATCCTGTGAG  
 Exon 13

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178641 ATACTTTCATCAGATTCTTTACCGTATCCATTGCTAACACTTATTAAAATATAGCTGCTTAACACAGTTGA  
 Exon 13

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rs2275217

178721 AGAAACTACAAAGATGATCTGGCTCCATTCCAAACTGGATCGTAAGAAGCAGTGACCAACACAATGCAAGACTC  
 Exon 13

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178801 AGGATATTGGCAAAACCTGAATAGTCTGTTAATAATATGGAAGAATTAAGGATGGCAGCTCAAAGCAAAG  
 Exon 13

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178881 GCCATGCTAGAAGTACATAAGACCTTATTGGTAAGTTCAGGCTTCTGTTCTAGTCTGATGTGTTAAGTGTAAATGTT  
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178961 GATTTCAAAACTGATAATTGGTGAACCATAGATGACGGTGTCAACCAACTCTCTACCATGCACAAACTATTGTTCA  
 179041 GGTGAAGATTATGCTTTATTGCTTIGAATTAAAACAATCTTTCCCTCCCCACCTCCCTCTGTTTCTATAA  
 179121 AATGTTACATTATTAGTAACAGTATATAACGTTAGAAGTAGACCTCTTTCTGACTCCGGCTCTGACC  
 179201 CTGGGTCAATTGACCATAGGTATTGTTAAATTCTTGGCCCTTTCTGAAATTGGTGTGCAATAACATTCTGAA  
 179281 CTTTTTTGGGGGGCATATATATCTTGATGGTTGCTATATTGTCAGAATATGTTGCTCATGTTTAACTAT  
 179361 TATCTCCCTTGTAGAAAAAGATGTTTATTAGTGTGAAATACATCTCTCATATTGGAATTGGACATTCAAGAAATAT  
 179441 AAAAATTAAACATCTAGACTCTAGTCTACTAAGCAACCAACTATATTGTTGATTGATTTCCAGTTTTTT  
 179521 TTCTCTGAAACTTACCATATTCTGTATATTGTTAGTAGAGATAATTCTAATTCTTGTGTAC  
 179601 TATGAATTATAGTTGGGTCTGATACACTTACAAATATGTTAGGGCTTACAGAGCACTATAGAAAATTGTAATGTATA  
 179681 TTTAAATTTCTTGTCTGTAGTGAGCCAGTCTTTAACATTACAAACAGGTTACACAAAGGGTACATTG  
 179761 TCAACTCTTGAAATGGTTGAACCGTATTAATATATGTTACATCTGTTGTATAG  
 Exon 14

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179841 GTAATCTGCTGCTTCAGTGTCTGCATTAGATACCATTACTACAGTAGCACTGGATCTCACATCTATTCCAGAA  
 Exon 14

---

179921 AATGTGTCTACTCATGTTCTCAGATTAAATGATACTAAAGAACATCATTAGCAGCAGAAAGTAAACTGTACT  
 Exon 14

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180001 ACAGGAATTGATTGTTAGTACATCCTTAAATATTGATAACTTGGCTTGCATTGATAAGTATTGATAAAATATTGAA  
 KNSL1\_14i.D+78

rs3051599 rs2421946

180081 GGGTTACATTGATAAGTCTTATAACAAATGTTAACTGCTATTCTTCTGAGCTTACTAGACACAGTCATAGAC  
 180161 ACGTCACTGTGAGAGACTACATATATATTGTTGTTGTTGTTGTTGTTGTTGAGATGGAGTCTGGCTC  
 180241 TGTCGTCAGGAGTGCAGTGGCTGATCTGGCTACTGCAAGCTCTACCCGGGTTATGCCATTCTCTGCCCTTAG  
 180321 CCTCCCGAGTAGCTGGACTACAGGCCACCCACACCCGGCTAATTGTTGTTAGTAGAGATGGCTTCA  
 180401 CCGTGTAGCCAGGATGGTCTGACCTTGACCTGATCTCTGCCACCCGGCTCAGGCTCCAAAGTGTGGATTACAGGC  
 180481 ATGAGCCACCGTGCCTCAGCCAGCCTCTCTTATTGTTATTGTTAGGCTCCTTCTGGCT  
 180561 CACTGCAACCTCTGCCCTGGTTCAAGCAGTCTCTGCTCAGCCTCCGGTAGATGGAATTAGGCATCTGCCA

**FIG. 6AV**

Heller Ehrman White & McAuliffe, LLP

Sheet 100 of 113

Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

180641 CCACGCCTGGCTAATTTTCGTTAGTAGAGATGGGTCTTACCATGTTGGTCAGGCTGGTCTCAAGCTCTA  
180721 ACCTCAAGCAATCCACCCACCTCGGCCCTCAAAGCGCTGGATTACAGCGTGAGGCCACCGTCCCCGGCAGAGTACG  
180801 TTTATATTTAAAGACAGATCTCTCCACTGTTATTCTCTCCAGAAAGATTATTTCAAATGTATGGAACATAACTTT  
180881 GAAACCTTTCACTCATGCTCTGTAACATTAGGAGTAGCAGTTATTAGTGAGGCTTCAATGACTAAAGGCCAAGTTA  
180961 GCACCATGATCAAGGGACTTGTAGTGGCCAGAAATTGGCAAGTCACTCTTCCCAGGGGCTGGACCCAAC  
181041 CAGAAGGGATATTGGTAGCTGATTTAAAATACAGTAATATGATACTAATAATGTCAGAAGAAAATATCTTGA  
181121 ATTCTGGGGACACATATCACTTCTAGGGTAGATCTGTGGCCCTTCGGGCCATAACTATAATCTTCTCCAGA  
181201 GTTCTATGGAAGTCACTCATTAATGCACTTACATTTGATTTATATAGTCTTTATTTTATAA  
181281 TTGTATGGTCTAGGAAGTCTTCTAGGACATATAATTATTGTCTTCTGTGAGGCTTTCGCTCCCTTTTCAG  
181361 CTTAACATATTAAACATTTCAGTAATACATAACAACTGTAGCTGACCCCTGCCTCAATTCACTGCTTGA  
181441 GACATTATTGTAGGTTCTCAATCACCCAAATTGACAAAATTAAAGATACTCTGTCAGTACTAACTTTCAAAATA  
181521 TTGATTCTTCATTAATGGTGTCTGATATATAGGACTACTTCAGAGATATTGCAAGGTTGCTTCCAGACCACTGC  
181601 AATAAGTGAATTACATAAAGCAACTGATGAAATTTCGTTCTTCGGCCTGCAATAAAGGTTATGACCAAGGGC  
181681 AGTGGCTCACACCTGTAATTCACACAGCCTGGGACAATCAGAACACAACAGTTATCAGTTACATTGCTCTT  
181761 ATAGGGTACAGTTATGGTACCCAAAGACAATTACAATAGTAACATCAAAGATCATTGATCACAGTGTATAATGAAAAA  
181841 GTTAGAAATACTCTAGTAGTGTACCAACATGTGATGCAAGAGACAGAAAGTGTGACATGATTTGAAAGGACTGT  
181921 AGACGTGCTCAAGGTAGGGTGCACAAACCTTCATAATTGTAATTGTGACACATAGTAAGGTGACAC  
182001 AATAAAATAGCTATGCCATGATACATTCTACTTACAAAGTTGCTGATTAAGGAAAGAGGCA  
182081 TGTTGCTCACAATTAGTGTGAAATTGGTAGCTAGCTCTTCCAAAAGAATGTCAGTAGACCTATAAGTATTTA  
182161 CTAATGTAATTCTGTTATCTCTCAGCCCTATCCTACCAAAAGGAGATAGATCAGGATTTTTCTTTTATAAAT  
182241 ATTTCACATCTACTACATCTTAATTCTCTTGTGACAGAACACATCTTCAACAGTTCTGATACAAATA  
182321 GGATGTAAGTCATCTCAGATCTCAAGCTTAAGTACTTCAAGGCTTAATCTGTGACTACTTGGTCTCAGCCT  
182401 TTTGACTGGTAACCTAAACTGTTGAAATTATTTCTTAAATATACCTGTAGGTTTTAAAATTTTGTGTTTG  
182481 GAGTGTGAAATTTAAACTGTCACTTCTCTTGTGAAATTCTCTGACTTCTATTCAATTAAACTTTAAATAGTTC  
182561 TGGCTGGTGCCTGGCTCATCTCAGCCTGGGAGGCCAGGTGGATCATCTGGAGGTGAGGTTGACACCAG  
182641 CCTGGCCAATCTGGTAAACCCCTGTCTTACTGAAATACACATTAGCTAGGCGTGTAGCAGGTGCTGTAATC  
182721 CTACTTGGGAGGCTGAGGCAAGTGTGAACTGCTGAAACCCAGGAGGCGGAGGGTCAAGTCA  
182801 TCCAGCTGGGCCACGAGAGTGAACATCTCAAAAAAAAGAAAAATTCTGTGTTTCACTGGCTTCAAAA  
182881 AGAGAAATTATATATATATGTAATATAAAATTGTAATTGTGTTAGTATGAGATATAAAATG  
182961 GAGAATGGGGCGGGCGGCTACGCTGTAATCTCAGCACTTGGGAGGCCACGGGGGGCGGATCACCTGAGGT

rs1972360

183041 AGGAGTCCAGACCAGCCTGGCCACATGGCAGACCCATCTACTAAAAAAATACAAAAAATTAGCTGGGTGCTGGCT  
183121 CACACCTATAATCCCAGCTACTCCGAGGCTAGGCAGGACATCACTGAACCCAGGAGGCAAGGTTGCACTGAGCC  
183201 AGATGTTGCCACTGTACTCCAACCTGGGTGACAGAAATGAGACTCCGTCTCAAAAAAAAAAAAAAGAATGGAGA  
183281 ATGAAATGTAATTTAATGTGATGTTAGCTACCAAAATTTAAGATATCATTTGAAAGGTTACAGAAAGTGGAA

Exon 15

183361 ATATTCTTTAAAGACCTATTGTTATTCTGAAACCAGAAATGTAACACTGATCTCAAGACTGATCTCAAGTTCAACTGGAAATG  
Exon 15

183441 ATTTTATCCCCAACTGTGGTGTCTACTGAAATCAATAGTCACAAAGCATAATTCAAGACTTCATGGACAGTGGC  
Exon 15

183521 CGATAAGGTAACAAATGCTATGTTCTTAATATCTCAAAATTGATGTGTTAAGAAGGAAACTCATTTGTTCTTC  
Exon 16

183601 AAAGATAGAAGATCAAAAAAGAAGTACAGATGGCTTCTCAGTACTGTGTAACAACTACATGAACTACAAGAAAATA  
Exon 16

183681 CCATTGTTCCCTGGTTGAGTCACAAAGCAATGTGAAACCTAACTGAAGACCTGAAGACAATAAGCAGACCCATTCC  
Exon 16

183761 CAGGTATGTTGTTAGCGGACTTGGGAGTACAGAAAGAGAGTTTAGGATGATTGATATGACTTGTATAATTATCTAT

rs1547818

183841 GTTACACAACTGAAATACTGTAAAGCTGAAACCTGAAAATACCATAGCCACTGTGCTTATAACAGTAATTATTGTAGA  
183921 ACAATTGAGAATACCTCTCTTAATATTGAAAGTTTGCTACATCTAGAACCCATGCCAGAACCCACAATATGACAAAACAG  
184001 TCCCTTCTCACATCAAGATGAAAGATGAATCTGAAAAACATACCTTTAGAGAAGAATGGTTATAACATTTAAAGTGAA  
184081 AATGTATCTACATTAAACCTGCTAAGTGTGTTCTAGGATGGCATGGATAGTTGTCTTCAAAACCAAGTCCACTTTC  
184161 TCTTATTCTGTCCTACTGATAGACATTAAACATAGTAAATGATACAACTTTAATTCTTATTGATTATAAAATGTA

FIG. 6AW

Heller Ehrman White & McAuliffe, LLP

Sheet 101 of 113

Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

184241 TTGATGATTATCTCCCTGTAACAGTGTCTCATTATATGAGGCTTTAACCAAAACCAAGCCTCAAACCATAATCTG  
184321 TAAATATCAGATATCTGAAAACAGCTCTGGTATTCTTAAGACTTTAATAATGACTGCTAAAGTTTATTAATGAGC  
184401 TTATTATAATATGACAGAACTCTTATAATAGTTAACATTTAGCAATTCACTGTGTTTATTCCCTCCATCAATATAG  
184481 ATATAAACTCTATTACTAGTCAGATTTAATGAGGAAACTGAGACCCCTGTGAGGCATCTAATAGTATGTAGATCATCTG  
184561 CAGAAGGTGGTAGTGATCACAATCCTGAGGAAACTGAGACCCCTGTGAGGCTCTTGTGTTTGGCAACTTAAAAA  
184641 CTGAGCAGCTTCTCATACATCTACAGGGTATTCTCTTAACCGGTTGAGAATTTAGGTATATTCTAAGGCT  
184721 GATCCCTTTATAAATTGCTGTTTAGAATGTTAAAGCTTAAAGTGTAGACAGCTTTAAAAAACAAATACAAAAAATC  
184801 TGATCTGAAAAGTATCTTAGCATGAATGCCCTGGCTTTAAGGAAGCAAGTCAGTATGTGAGCTATTCTT  
184881 AGGTTTCCAGAACTGAAATGAGCAACTAAATAATTGTAAAAGTGTGAGACACATTACATATAGATAAATTA  
184961 TACCTGCACTGATCATTCAAAATTATAATCTGATAATACCTTGTGAGGACTAGTAAAATACAGACACTTTATTCATATC  
185041 AGAATGTTAGATATGTTCTGCAACTGATGTGTTATTAGAGACTGGCCAACCACGACTGAAGAGTGAATAAGAAT  
185121 GTGGATGCTTCTAGCTCTTGGCTATTAGGATGGCTCTTCATTGCAATGTAAGCATGTTATATGCCATAAG  
185201 AGCTGTTTCAAGATGTTAAATGAGCAAAGATAAGCATTTACATTGTAATATGATCCAACTAGGTTCTGTA  
185281 ACATTTTTCTGCACTGAACTATTGATAATATTGTTGATTGCTGCTGAGCTACTATACATTAATTTCCTCTGAG  
185361 AGTGTATCACTTAAAGCAACTATATATATCTGCAAACTGCTTAAACATACTGATATATGGGTTCTTGATT  
185441 AGTTTGAGGTACACTGAAAGTAATTGTTACTACAGCTAAAATAGTAAGTTGCTAATTATTTACTTTTAAAAAAT  
185521 CCTGGCTGGATGTCATGGCTCATGCTGTAATCTGCACTGGACTTTGAGGGCTGAGGCGAGCTGATCACCTGGCTAGGAG  
185601 TTCAAGGAGCCTGGTCAACATAGCGAGATCAGCTCTACAAAAAAATTGTTAAATTAGCCAGGCATGGCTGCTC  
185681 ATGCTGTGACTCCAACTACTTGGAGGCTGAGGAGGAGATCCCTGAGGCCAGGAGTTGAGCTGCACTGAGCCT  
185761 TGATTGTGCCACTGCACTACAGCTGGACAACAGAGTGAAGACCTGCTCTAAAAAAACAAATCCTACATTAA  
185841 ATCACTTCCACTGCTTCTCTGTAAGAGAAAGTAACTTTATCTCTGTCAGAATTTAATATAATTCTCACCT  
185921 ATGGACAAACTCTTGTGTTATCAGTCATAAAAGTGTCAAGTCTTCACCTTCAACTCCCACAC  
Exon 17

186001 CTTTCTTACAGGAACATTGCAAGTTAATGAATCTTGGACAGAGAGATTCTGTGCTTGGAGGAAAGTGTGAAAATATA  
Exon 17

-----  
186081 CAGAAACCACTTACTAGTGTCCAGGAAAATATACAGCAGTAAGCTATTAAATTCTCTAAACTTTCTGTAAGTCTG  
186161 AAATTAAATTAAAGAAGAAAAGCTTAAATAGTCAAAATAATTCTCTGTGACTTTCAAAATTCTCTTTGTTAATATT  
186241 TATTATGTTATGTTGCTATGTTATATATATGCAATAATAGTCTTCTGCTTGTGCTCTTTAAAGACAT  
186321 TGAAAACCTGGCTTACCCACAATATTCTGCAATTCTCTCAATTTAGAAAACACACTAAGTAATTTCACAAATTTC  
186401 TAACCTATATTACTGATGAAAATATACAACTAGACGAGGTTTGGCAAACACTGTCAGCAGGCTGGATGCCCTGTTAT  
186481 TGCAAATAATTTCATTGGCACTGTTTACATGTTGCTTGTGCTTGTGACTGCAAGTGGCAAAAGTTGAGTCATGCA  
186561 TCCAGGCTATTGAAACATAAGCTTAAATTTGCTATCTGGCTTTCAAGAAAAAGTTGCTGATTCCTGTTAGGGTT  
186641 TTGTTTTTGTGTTTGTGTTTGTGCTTGTGAGGCTTGTGCTGCTCACCAGGCTGGAGTGCAGTGGAGTGTATCTCAG  
186721 CTCACTGCAAGCTCCGCCCTCCAGGCTCACGCCATTCTCTGCCCTCAGCCTCCGAGTAGCTGGACTACAGATGCCGC  
186801 CACCATGTTGGCTATTGTTAGTAGAGAGGGTTTACCATGTTAGCCAGGATGGCTCGATCTCTGAC  
186881 CTCGTGATCCGGCCCTGGCCCTGGCCCTGGCCCTGGCCCTGGGATTGCGAGGCTGAGGCCACGCCGGCTCTGTTTGT  
186961 TCAGACAAAACACAGCTGCTCTGAGCCCCAGCTGAAGTACAGTGGCGAGTGCAGTGGTGATCTGGCTCAC  
187041 TGCAACCTCTGCTCTGAGTTCAACTGATTCTCTGCCCTCACCTCCGAGTAGCTGGGATTACAGGCACATACCA  
187121 TGCCTGGCTAATTGTTGATTCTTGTAGAGATGGGGTTTCCGGCACGTTGGCCAGGCTGATCTGAACTCTGCTCTCA  
187201 ACTGATCTCCCTACCTGGCCCTGGCCCTGGCCCTGGGATTGCGAGGTTGAGCTACGTCCTCCGGCTGATCTGTTA  
187281 TGTGCTTGTGAGCTCATTGCTTGGCAGTTGGCATACTTAACATACACTGAAGCTTGGAACTATGTTTCTTTAGGAA  
187361 TTTTATAACTTTATGGTTAACATTATATTGATCCATTAAAAATTTTATAAAACATAGGAGATTGCAAGTT  
187441 CAGTTTTGCTTGTGTTTGTGTTTGTGCTTGTGAGGAGAAAGATACTATATTACCTTATTTCCCCATTAAATCTG  
187521 AAATTAAACCTCTAAAGTTCAGCTTCTGGGGAGACTCTTTAAGGGGGCTGCTGGACAGAAAATTGTT  
187601 TTCTTGTCTAAGAATGCTTGTGTTTCTCTTCTGAAAGCTTACTGCTGCTGCTGAAATTCAAGGTTGACAAT  
187681 TATTGTTTCTCAGCATTGAAATATTCTCATTCTCTGCTCTATGAAATGAGAAATCCACTGCCATTCAAGTAATT  
187761 GTTCCCTTATAGGAGCTCCCTATAGCTGCTTCAAAACTTTTGTCTTTAGAAACTGATTATAATTGTCTACTTA  
187841 TATTTCGTTGACTTTATTCTTGTGTTTGTGAGCTTCTGAAATCTGAGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTG  
187921 AATTTCATCTATTAAATTCTTGTAAATTCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTG  
188001 TGTGAGATCTTTATTGTTGCTCTCAGCAGATATGAGAAATTCTTCTTGTGAGATACATATACTCTTGTGTTCTCA  
188081 CATTGGGAAATCTTACTGATCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTG  
188161 AATGAGGTGTTTTCAGTTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTG  
188241 GCTAGGATTTTTCTTCCAGGAGTATTAAATTCTTCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTG  
188321 GACAATTCCAACTGAGTTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTG  
188401 CTTGATATATGATAAGTGTGTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTG  
188481 TATTGTTAGCTGGCATTCCCTGTTAGGCTAGCATACAGATCCAGGCTCAGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTG  
188561 AATTGAGGTGTTTTCAGGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTG  
188641 CTGCTTCTGCTGAGTGTGTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTG  
188721 TTACTGAGTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTG  
188801 TTTTATTAGTTCTATGAGTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTG  
188881 TCCTGGAGAATTGACCTTTATGATAATTCACACTTTATGTAATATGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTGCTTCTG

FIG. 6AX

Heller Ehrman White & McAuliffe, LLP

Sheet 102 of 113

Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

Serial No. To be assigned      Applicants: Becker *et al.*  
Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B

188961 TCTGAAATGAATAACAGGTTTCTAGCTTCCTTGATTGCTATTGTATGATGTATCCCTCTCCATCTCTTACTTTGG  
189041 TCTAAGTCTTATTAAGTGGGTTCTTATAGACAGCATGTAGTGGCTTGCTTTCATCAAATTATACTA  
189121 TGATGTTTATTTTATTTATTTGAGACAGAGCTTCTGCTGCCCCAGGCCAGGACTACAGTGTGCAATCTGG  
189201 CTCACTGCAACCTCTGCCCGGTTCAAGTGTCTCAGCCTCTGAGTGTCTGGGCTACAGGCACACAC  
189281 CACCATGCCAGCTAAATTAAATTTTACTAGAGATGGGTTCCACATGTTGGCCAGGCTGGTTCTGAACCTCTGAC  
189361 CTCAAGTGTACCTGCCCTGGCTCCAAAGTGCTGGGATTATAGGTGTGAGGCACTGCACCCAGCTGCCCTTCTCA  
189441 TTAAATGAGCACTTTATGTTTATCTCTTCCATTGACTTATTTAAATATTCCCTTTAGTAGTAA  
189521 GTCTAGGATTTAACATACATTAAAGATAATTGATACATTAAAGATAATTGAAATCATTACAAATA  
189601 TTTGCTGTTCATGCTAGTGAAGGACATATTAAAGTATTCCTCTTCCGTTGCTATTATTTCTATA  
189681 TGTTTACTTAGGTGTTATATGCAATAAACACCTAACATGTTACTTGAAATTGCTTATCTATTAA  
189761 TGTATCTACTAGATTTTTTTTTTTTTTAGGGAGGGACTCTGGCTGACCCAGGCTGGAGTGCAGTGGTCAAT  
189841 CCTGGCTCACTGCAACCTCTGCCCTGGCTTCAAGCAATTCTCTGCCCTAGCCCTCCAAGTACCTGGGATTACAGGCA  
189921 CCTACACCACATGCCCGCTAATTGGTATTAGTAGAGACGGGTTTACCATATTGGCAGGCTAGTCTCAAAC  
190001 CCTGACCTTGATGCCGCTCAGAAATTAAATTGATATGTGGCTCTATTATACCTCTGTTGAACAGTGTGTT  
190081 CTGGAACCTCTAGCTATTTATATCTGCAACTTCTGTTCAACCTGTTGTTGAGACAG  
190161 TATAGCATGTTCAATTGAACTCTCTCTATGCTGAATCAAAAAGTATGCTTACTTTTATTCTTAGTATCTAGAC  
190241 TGATGGATTTCAGGCCATTCCATAGCGTGGAGAAACTAGAGTAGGATTGAAAGGAAAGTATGATATACT  
190321 TTCTTAAGGCCATGCAAATCATTTCCTGCTTCTGACATTATTGTCTACACCAGAGTTCCAGTATGGCTAGG  
190401 GACTTTGATTCTCATCACCCAGGAACCTAGGTGATGTTATGACACACTGCACATACTGCGTTGCAATTATTGTCAT  
190481 GGCTTATAGTACTTTAACTCAATCTGCTTCCCTTAAGGTTGAGATTGTTGTTTATTGAGACAGAG  
190561 TCTTGCTCTGCCCCAGGCTGGAGTACAATGACAACATCTCAGCTACTGCAACCTCTGCCCTAGGGTCAACCAATT  
190641 CTCCCTGCTCACTCTCCAAAGTAGCTGAGATTACAGGCACCCACCACGCCGGTAATTATTGTATTAA  
190721 GAGACAGGGCTTACCATATTGGCCGACTGCTCTAACTCTCTGACCTCAGGTGATCCACCTGCCCTGGCTCCAAAG  
190801 TGCTGGGATTAGAGGTGAGGCTGAGCCACTATGCTTGGCTTTTCACTGACTTACCTGACTTACGGTTGGTTTAA  
190881 ACATCTTGTGACTCACTTGGTTACCCACGGTGTGACATTCTAGTGTAAATGAGAGTCACTTCAATTCCACAAGTT  
190961 TAAATCTGTAAGATAACTTGAATGCTATTAGGGCAACTTACCGAGATGAAATTATCAATGAATTAAATGTATG  
191041 TCTAACCAACATTAAATTATATCAAGTTTATCTACATTGTTCTATATGATAATTGTCACACCCAAATAATTAA  
191121 ATTATTAGAAACCTTATAGCTAAATTAAACATAACATTGTAATGTCATGATTGTTTACATACTAGGCAAGGGAAA  
191201 CTGCTTAATAACAGAATAATGACTGATTGTCACATTAGGACTAGACAAGAGGCTGAGTAGATGCCCTGAAGTAACA

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191281 TTGCTTAGTAAGAGGAATAAAACAAGTAGACAGATTTGAAAGCATCAAACCTGGAGGAGGTTGAAAGGTTCATGA  
191361 GCAAAGATGATCTTCAAGCTCATTTAAATGCAATGCTGAAAGACAGTGGCCAAGGATCATTCTCAATGCCAGA  
191441 AGATTACTAAGATCACGGGCCCTGGAGGCCAGACTGTCACGTTCAAGACTGAGTGTGATCTGGGAA

Exon 18

191521 GTTATATATCCTTGAGTCTTAATTCCCCATTCAACAGTGTCAATTCTCTTCTATAGGAAATCTAAGGATATAGTC  
Exon 18

191601 ACAAAATGACTTTACAGTCAAAATTGTGCTGATCTGATGGCTCTCACAGGAACCTCAGAAATTAAACCAAGAA  
Exon 18

191681 GGTACAAAATTGGTTGAGAATCTGTGAAACACTCTGATAAACCTCAATGCCAACCTGGAAAAAAATCTCAAGAGACTGA  
Exon 18

191761 ACAGAGATGTGAATCTGAACACAAGAACAGTTATTCTGAACAGTGGTATCTCCTTAATGAAAGGAACAGG  
Exon 18

191841 AACTTCACAACATTGGAGGTAATAACTTGTAAAGTGGAACTTACTTGGGAGAATAATAATCAGAAAGTTAAATT  
191921 CTTGGCTAAGAATAGATTCAAAACAAATGATATTAAAGCTATAATGACTTAAACTTTAAGTATAATATTGGTATGC  
192001 TTACAGATGATCTGTTGTGTTTGTATATGCTCTCAATCTGGAAATTAAACATTGTAACAGTTCTTCC  
192081 TGTTATTTATCTTGGCTTCTGACTTAGTGTCTTCAAAAGGACCCCTGCTTTGATATGTAATACCTTCAACTT  
192161 ATATATGCTTTTTTTTTTTTTTGAGATGGAGTCTACTCTGTCAGGCTGGAGTGCATGGCACGATCTCAG

KNSL1\_18i.1

192241 CTCACTGCAACCTCCGCTCCCAAGTCAAGCGATTCTCTGCCCTAGCCCTCTCGAGTAGTGGGATTATAGGCACCTGC  
192321 CACCAACCCGGCTAATTCTTGTATTAGTAGAGATGGGTTCACTATATTGGCAGGCTGGTCAAACCTCTG  
192401 ACCTCATGATCCACCCGCTCGGCCCTCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCCGGCTATCTTGCTT  
192481 TTTACTTTCTCCAAGTACATTCAACCTATTATTAAAGTATTAGGTTATTGTTCTGTAACAAAGGATACTTG  
192561 ATAGGTTATGGATTGCTGTAACCTAACGCTTGCATGAGCCCTTGTAACTTGGTTTTCTTGCATTAATAGG

FIG. 6AY

**Heller Ehrman White & McAuliffe, LLP**  
 Sheet 103 of 113  
**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**  
**Serial No. To be assigned**   **Applicants: Becker et al.**  
**Date of Filing: 6/18/03**   **Attny Dkt No. 37481-3308B**

KNSL1\_18i.2

192641 ATTTTACTAACATTCTAGGAAGTAGGTACAAAGAATTAAAATTTTAATCTATATAAGCTGTTTCACTAAAAGGAAC  
 192721 AGAGTTCTATACAAATAGCTAATTTCAGATTGTGATAGGAATGTATAATATAGGACCTAGAGACTTGTCTACCA  
 192801 GAGAGTAAGGAAGCTGTTAACGATTCTGAGGTGTCAAAGGTCTTAGTAGCCAACCTCCCATCTTCAAAGGTGCAT  
 192881 AATTTGAGCATCAAAAGAATAATGCCATAATCGATTAAAACATATCAAATATATTAAACTACGAACATCAAAAAT  
 192961 TTCACTAGGTCTCCCTTGATCATGCTAGGGAAACACACATTGTCTGAAAATGGGTAAGAAGAAGAAAAATTAGCA  
 193041 TCCATGTCCTTCTCTAAAGAACCATCTTGTGTTAGCAGGTAATGAAGAAAAGTGTCTATTAGACTCTAACCTAA  
 193121 AAAATGGAGAAGAAATGATAGAATTATATACACAGTATGCACTTAAATAAAATAACCCCTGTTGATGTTAATGA  
 193201 TGGCTTAAACCATTGATCAAAGCTGTTGGGAACTTTATAATTAAAGGTAACCATCTGAACTCACTGATAAATC  
 193281 TTAACATGAGAGACACAGAACAGCTTGTGCTTGTGAGTACTACCTATGAAATACTCTCTTAAACCTGAA  
 193361 TTAATCAAGCCTTGTCTAACAGTTGTGAGAAAATAAAGGATAGAAATTCAGGAAATCCAGAAATTGAGAT  
 193441 GTTCATGGGTTAACAGCTCATGCTTCAGCAACAGTTTCTTCAAGGAAAATATGAGAACAAATAACCTGT  
 193521 ATATCAAAGAGACTTAAGACTAGAGGTCTTAAGCTTAGTTCCCTGAGACAGTCCTGTTGATATTGTTGATTA  
 193601 ATGATTATTAGAATGGGCCCTTCACTCCAAAGGTGTCCCAATTGGATGATAAATTATATAGTCACCGACTAAGAC

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193681 CTATGAACCAAATCTAGTGGTGAATTCTGGTTCAACAAAGCAATTGTGACACACATTTAGACGACTGGTGAAGTTG  
 193761 ACATGGACTAGACATTGTGATAGGAAGGACTAGTGTAAACCTTTTAGATGTGATAGTGGCTTAAAGTGCTTACCT  
 193841 TTAGAGATACATGCTGAACAAATGGATGAATGATACAGGATTGTTCAAAATAATCTGGTTTATGGAGGACTTGA  
 193921 GTGCCAGTCCTGTGTAATGTCGTACTCCACTTGTGTTAAATGTTGAAGCTGGTAATGAATACAAGGGACTTAA  
 194001 TTATACTGTTCTCTACTTTGTATGTGTTTAAATCTTATTACTGAAGGCCAGGTCTGGTGGCTCATGCCGTAA  
 194081 TCCTTGGAGGTCAGGTGGCAGATGCTGTTGAGGCCAGGTTGAGACCCAGTGGCCAACATGGTGAATGCCCACCTC  
 194161 TTCAAAATAACAAAATAGCAGGATGTTGAGTACATGCCCTGTACTCCAGTACCTGGTGGAGGCTGAGGTGGAGGAT  
 194241 GGCTTGAGCCTGGGAGGTCAGGCTGTAGTGAGCACTACTCATGCCACTGCACACTCCAGCCTGGGCAACAGACTGAGACTT  
 194321 GTCTCCAAAAAAAAAAATTATGAAAGGTAAGGAAAATATGTTGAATAAAACACTGCCAACTTTAATTTCAG  
Exon 19

194401 TAATAAATATTTATTCATCATTACAGGTTGTAAGCCAATGTTGTGAGGCTCAAGTTCAAGACATCACTGAGAAATCA  
Exon 19

KNSL1\_18e.CDS+2605

194481 GATGGACGTAAGGCAGCTCATGAGAAACAGCATAACATTTCAGTCAAGATGACTATTGATGAAGATAATTGATAGC  
Exon 19

194561 ACAAAATCTAGAACTTAATGAAACCATAAAATGGTTGACTAAGCTTAATTGCTTCTGAAACAGGATCTGAAACTGG  
Exon 19

KNSL1\_18i.D+16

194641 ATATCCCAACAGGTACTTTAAAGAGAAATAGAATTGTTAAATTGTTGAAAGTCGAATTCAACTCTATGAGTCAGAT  
 194721 GTTCAGAAAAAAATTAGGTCTGCCATGCCCTGACAGAAATTAAACATCTCACTGATAATCACTCAGGAAACTGG  
 194801 ACCTTAAAATAGTTTAAATCAAGTGTCTGATGACAGGTGGTATCACAATTGCTGATAATTTCACATACTTCACTGG  
 194881 GACTTGTAAATAGGGATTTTAAACAAATACAAACACTGAGCTGTTGTTAAAGGACATTTTAAACCAAAATAT  
 194961 GGGAGAGATGTAACGACTAAATCTAGTTAAATGCAAAGTTTACACATTGTGCAATTGTTCTGTCTCCCTCATTT  
 195041 GTCTAGACATTGCCATTAGGATCCCTCTTTAAAGAGATCAGGGATCACCATTGGCATTAGCATTTAGGAACTTAA  
 195121 ATTGGAGAGATCACATGCCAAAGGATCTAATTAGGCTGTAATTGTTGAGGCTTCTGTTGAGAGATCTAACAAAG  
 195201 CTGTTTACACAGCATGAAATAATTGGTTCTCATTTGGATTGTTGACACCCCTGTAACACTCACTAAATCC  
 195281 ACTGAATTGTACACATAAAATGAGTGTATTATGCTATGTTAAATTATCACAAACTCTTTTTTTTTAAATTAAAAA  
 195361 GCAATTCTTAAAGGGATGCTGCTACAGAATGTTGAGTAAAGGCAACTGTTGAAATCATGAGAGCATGAGCTTAC  
 195441 TTTCAATGAGTTAGGAATGTAATTGTTGAGTAAAGGCAACTGTTGAAATCATGAGAGCATGAGCTTAC  
 195521 GAGAAATATAACTGGGGCCGATGCCGCGTGCACACCTATAATCCAGCAGTCCGGGAGGCAAGGAGGAGATCGTT  
 195601 TGAGCCCAGGGTTCAAGACCAGCCTGGGCAACATAGTATGTTGAAACTACTGCTGCCATTGTTTCA  
 195681 TATACTGAAATGATTACTCTTATCAAAGTAATCATGTTGGAAATCTACTCATGCTGCCATTGTTTCA  
 195761 ACACATATAACTCCTTTAGAGCTTAAACACATCTTATATCTCTGAGGCTTGTGAAACTCATGTTAGAGAGTAG  
 195841 GATGAATCTGAAAACAGTAAAGCTGTCTGATCAAATTAGAAAGTATGTTGAGTGTCTGACAGGTAGCAAG  
 195921 ACTGATCCTCATATATGGCAATTATAATTAGGAGAAGATAATTAGGAAGTTAGGTTTTTTAAAA  
Exon 20

196001 ATATTTACATCTCATACTTTAATTTCACCTCTTATCTAATGTCGTTAAAGGTACGACACCACAGAGGAAAATTATT

**FIG. 6AZ**

**Heller Ehrman White & McAuliffe, LLP**  
Sheet 104 of 113  
**Title: Genes and Polymorphisms on Chromosome 10**  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases  
**Serial No. To be assigned      Applicants: Becker *et al.***  
**Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B**

Exon 20

196081	ATACCCATCAACACTGGTAAGAACCTGAAACCATCTCCCTGATCAGCTGAAAAGGAAACGCCGTGAGCTGTTAA Exon 20
196161	TGATGCTAAACTGTTCAGAAAACAACAAAGAAGAGACAATTCCGGTAAATTAAAGGATCATATTTATAATAGAACCTCT KNSL1_19i.D+57
196241	TTTATGAACCTTGATGTCGGCTGACTTCATGTGAAGAATTACTGTTACCCCTCAATCTACCCGCCTCTCATTAAT
196321	GATAGGCCTAGCCCTTAGGCTTGTCTTTAAATCTTACTAGTTAAATTATGCTAGTAGATAATAATAGCCAATACT
196401	TAATAATTGTGCTTAGTAAACATTGTATATAGAACCTCTACTCTATAAAAATATATTAGGAATTATTTCATTAATT
196481	GTAGACTTTCTAATAATTGTGAGGTTAACCTTTATATTACCATGGCATTGCTTAACTCAAAGCTGCTGTTA Exon 21
196561	CTCTTGTGATGACTTTAAGCCCTGGACTTAGTCACTCATCCAGTTCTCTTTAGGATGTGGATGTAGAAGAGGCAG Exon 21
196641	TTCTGGGCAGTATACTGAAGAACCTCTAAGTCAGAGCCATCTGAGATGCTGGTGTGGATTGTCATCAATTGGCGGG Exon 21
196721	GTTCCATTTCAGGTATGTCATATCAGATAACCCCTCCACATCTGATGTAAGTCATTCACTTACTATTCAATTATAAG
196801	GTATTGTTCTGCTGAGCAGAACACAAAAACCTTCATTATTCTCTTAGGATGGCTTGTAAACGCTTATGATTGAATT
196881	AATTACAAAATCTGATATTCTGATAAGGGTTCTCTGAGAATAATGAAAGGCCAGAACCTTGACTTAACTCACATCCCTAC
196961	TGATAATTCTTAGCTATTGTATTATTCTCTCTGCTTGTATAACTCAGACACTGAGGAGCTGATTCTCTTCTCT
197041	CTACCTTGTACATGTAACTCTGGAACCTATCTGCCATAATCAGAGCTTGAGGCAAAGTGATTGAAAAGATTGAGA
197121	GACTGGAGGCCTTCTAGGTTATATTAGTGAATTCTCCTGCCCTGAGGCTCTCTGTAAACTGTTGCCCATGTTCT
197201	GAGCACCTTGCCTGCTTAATCCAGTGTAAATTACCTGACCTCTCCACTCCACCTCTTCTTGTGAGACTGA
197281	GTCACCCAGGCTGAGTGGAGTGGCACGATCTGGCTACTTAACCTCCGCTCTGGACTTCAAGTGATTCTCCTGACTC
197361	AGCCCTCCGGTAGCTAGGATTACAGGCTGACCCACACCTGGCTATTTTTGATTTTTAGTAGAGAGACAGGGTT
197441	TCACTATGTGGGCCAGGCTGGCTCAAACCTCCGTACCTCAAGTTATCTACCCCTCTCGGCCCTCCAAAGTGCTGGGATTA
197521	CAGGGTAGAGGCACTGTGCCAGGCTTACCCAACTTTTTCTTGAGACGGAGCTTGTCTTCCCAGGC
197601	TGGAGTGAATGCCAGGATCTGGCTCACCGCAATTCCACCTCTGGCTTAAGTGAATTCTCCTGCCCTCACCCCTCCGA
197681	GTAGCCAGGATTACAGGCTGCCCCACCATGCCCTGGCTATTTCCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT
197761	TTTTTTAGAGGGGTTCTCTGTTGGTCAGGCTGGCTCGAACTCCAACTTCAGGTGATCTGCCCTGCCCTGGGCC
197841	TCCCGTAGCTGGGATTACAGCTGTGAGGCCACCCGGCCCTCTACCCACTTTAAACTGTGAGGATACGGCATTGAGAATAGT
197921	TGGTTATGATTCTCAGCATGACTGAGTACCAATCAATGCTGGCTTCAAGCTGATTCTCTATGGTAAGT
198001	AGGAGGATTCACATGAAATACAACCTCAAGTGAGGCTCTATAAAACTGCTGATCTTCTCTCTAATTGAGGGTACAA
198081	GCCTAGACAGACTGTGAAGGAAATTCTTACGTAGGACATTGGTATCTACATTACAGTTGAAGTTCTACTTCTG
198161	AGATCCATTGCTGTACCTTTTTTTTTTTTTAAATATATATAGAGAGAGGGCTTGCTATGTTGGCCAGA
198241	CTGGCTTGAACCTTGGCTTCAAGCAGGCCCTCTACCTCAGCTCCAAAATGCTAGGATTACGGCATTGAGAACCCTGC
198321	GCCTGGCTTGTACCTTTTGTTGTGTTATGCTTGTGTTTTGTTGAGACGGAGTTGCTCTTGTGCTTGTGCTTGTGCT
198401	CAGGCCAGAGTGCAATTGGCTGATCTGGCTCACCAATCTCCGCCCTCCGGTTCTAGCATTCTCTGCCATCCT
198481	CCCGACTGCTGGGATTACAGGCTGACCCACACCTGGCTAATTGTTAGTAGAGAAGGGTTCTCCATG
198561	TTGGTCAGGCTTACCTGTAACCTCCGACCTCAGGTGATCCGGCCCGCCCTCCAAAGGTCTAAAGATTCTCCATGG
198641	AGGCCACCCGCTGGCTGTAACTCTTAAATAGATCTACAGCTCTCCCTTAAGGTCTAAAGATTCTCCATCCCTG
198721	CTTTCAACAGTTAACAAAGTCAACTCAGATTCTCATAAATCCTCCCTGTCTTCTCTGGCAATTAACTTCCAAAT
198801	TCTTGGCCACCTTTGCTTACTTCAATTAGAGAACACTAAATATGTTCTCTGAGTTTACCCCTTCTTCTPATC
198881	TTTAAAGTTAGGAAAGGGGAGGAACTAAGAGAACACTGGTACTACTTAAATCCCTGGCTCAGAAATCGTTTATTATT
198961	ATCTGTCGCAATTGTAATTAGCTTACTGATTCACTATGGCAAGGAACCTCCCTACAGTACAGGAAAGGGTTCTGGATGG
199041	GGTTTTAGACCTTCACCTGAACTCCAGAAATGATCTTCCCTAGTAGCAGTGTGATGGGGATTCTCTCGCTTAA
199121	AACTTTAAAAGTGGTTAACATTGTCTCAGCATGACTGAGTGTACAAATGAATGTCACTGGCTTAAATGTTCT
199201	GTATGGGTAAGTAGGATTCCAATGAAACTAGAACCTTCAAAATGAGGAATATGAAATAGGTTTACAAATAAAATAC
199281	AAATTAAAACAAAGTAAAGTGTGTTAACGGCCCATATACAGTTCTCTGCTTAAACAGAAATTGGCTTGTGCT
199361	CATGACAGCAAATCTTGTCTTCCAGACCGAGGTTCTTGACAGCAGTGTCTTGGCATTTAACTGGATAATTCTT
199441	GTTGATGGGCTTCTGTCGACTGACTATGTTGGTACACAGAACAGTGTACTATGTGAATAACTCACTCAAAGC
199521	CACTGACACTCCCTGATGTAACACAAAAAGTCTCAGCATGGCAAATGTCCTGGCAGCAGAATCACTCCCT
199601	GATGAGAACCACTACCCGGACTAAATCTAAACTATGCTTAAAGAAAATACACAGAAAATTAATATTCTTCACTT
199681	ACTCCTTCATTAGTGTCAAATAAGAAGGATTGGCGTACTTGCCAAATTGTTGGCTCAAACATTGTGCTGACCTT
199761	TTTTGGTTTCTACACTTAAGTTTTGCCTATAACCCAGAGAATTGAGGTGACTTAATGTTGCTAAATGTTGCT

**FIG. 6BA**

**Heller Ehrman White & McAuliffe, LLP**  
 Sheet 105 of 113  
**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**  
**Serial No. To be assigned** **Applicants: Becker et al.**  
**Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B**

Exon 22

199841 GTTACTTTGTATTGACTTAATTTCCCGCCTAAATCCACAGCATAAAAATCACATGGAAAAGACAAAGAAAACAGACG  
Exon 22

199921 CATTAAACACACTGGAGAGGTCTAAACTCGAAGAAACTACAGACACTTGGTTACAAAGAGCAGATTACCTCTGCGAGGCC  
Exon 22

CDS end

200001 AGATCAACCTTTAATTCACTTGGGGTTGGCAATTTCATTAAAGAAAACCTAAAAAATAAACCTGAAACCCCCAGAAC  
Exon 22

200081 TTGAGCCTTGTGTATAGATTAAAGAATATATATTCAGCCGGCGCGGTGTCATGCCCTGTAATCCCAGCAGCTTG  
Exon 22

200161 GGAGGCTGAGGCGGGTGGATTGCTTGAGCCAGGAGTTGAGACCAGCCTGGCCAACGTGGCAAACCTCGTCTGTTA  
Exon 22

200241 AAAATTAGCCGGCCGTGGTGGCACACTCCTGTAATCCCAGCTACTGGGGAGGCTGAGGCACGAGAACACTGAACCCAG  
Exon 22

rs1044146

200321 GAAGCGGGGTTGCAGTGAGCCAAAGGTACACCACTACACTCCAGCCTGGCAACAGAGCAAGACTCGGTCTCAAAAACAA  
Exon 22

200401 AATTAAAAAGATATAAGGCAGTACTGTAATTCAGTTGAAATTCTACCCATTTCATGTCATCCCTATAGTT  
Exon 22

200481 CACTTTGTATTAAATTGGGTTTCATTGGATTGCAATGTAATACGTATTTCTAGTTTCATATAAAAGTAGTTCTTT  
Exon 22

200561 ATAACAAATGAAAAGTATTTCTTGTATATTAAAGTAATGAAATATAAGAACTGTACTCTCTCAGCTTGAGCTTA  
Exon 22

200641 CATAGGTAATATCACCAACATCTGCTCTAGAAAGGACCATCTCATGTTTTCTGCTATGACTGTGATTTC  
Exon 22

200721 TGCATCCTCCCTAGACTCCCTATTGCTTCTCCCTCGGCTCACTTCTCCCTTTATTTCACCAAACCATTGTA  
Exon 22

200801 GAGCTACAAAAGTATCCTTTCTTACAGTAGTCAGAATTATCTAGAAATCTTAAACACCTTTAGTGGTTAT  
Exon 22

200881 TTCTAAAATCACTGTCAACAATAAACTAACCTAGTTGATCCCTCCCTTCAGTATTTTCACTTGTTGCCCAAATGT  
Exon 22

200961 GAAAGCATTTCTTAAAGAGGCTAACTCATTCACCCCTGACAGAGTTCAACAAAAGCCCACCTAACAGTATACATT  
Exon 22

201041 GCTATTATGGGAGACCACCCAGACATCTGACTAATGGCTCTGCCCCACACTCCAAGACCTGTGCCCTTTAGAGAAGCTC  
Exon 22

201121 ACAATGATTAAAGGACTGTTGAAACTCCAATTATGCTCTATATTATATTCTTTGTTACATGAAACTTTTGT  
Exon 22

201201 TGTTGCTGTTGTATATAATACAATGTCAGATGTTACATGTTACCTTCAGTCATGAAACCTTAAACCTTACAGACTCTGGTATT  
Exon 22

201281 TTTGATCTGGCAACCATAATTCTGAAAGTTGAGATGTTCAAGCTTGAAGAACAAACAGAAGGAATATGTACAAAGAAT

**FIG. 6BB**

**Heller Ehrman White & McAuliffe, LLP**  
 Sheet 106 of 113  
**Title: Genes and Polymorphisms on Chromosome 10**  
 Associated with Alzheimer's Disease and Other  
 Neurodegenerative Diseases  
**Serial No. To be assigned      Applicants: Becker *et al.***  
**Date of Filing: 6/18/03      Attny Dkt No. 37481-3308B**

Exon 22

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201361 AAATTTCTGCTCACGATGAGTTAGTGTGAAAGTTAGAGACATCTGACTTGATAGCTAAATTAAACCAAACCCAT

Exon 22

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201441 TGAAGAATTGAATATATGCTACTTCAGAAACTAAATTGATCTCGTAGAATTATCTTAATAAAAATGGCTATAATTTC

Exon 22

rs1044153

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201521 TCTGCAAAATCAGATGTCAGCATAAGCGATGGATAATACCTAATAAACTGCCCTCAGTAAATCCATGGTTAAATGTG

Exon 22

---

201601 GTTTCTACATTAACCTGCTTGCTCCATAATTCTTATCTGGCAATGGGTATATTAGAGGGTTAGGCAAGCTGCATTCA

201681 ATTCCCCAAATAAAACTATGCAGGTACCCAAAGAAGAAGGAGCCTAGTAACCTTGCAGGCTTTAGTTGCACCTCAAGG

201761 GGCTATCCCTACGTGCAAGGTTAGTGAGAAGTAGGCGCTCACAGCCTGAAAGTCCAGCTTAAAGTCATCTCATTCCATGA

201841 CTGTTTAAGTTATCTGAGAATGCTGACTAATTTCACTGCCTCACAGAAGCAAAAATAATCTCCAGATAATTAA

201921 ACATCCAGAACCATAAATTAGCTCTACCAATTTCATACACAATGTCGGGCCCTCAGAATGTAACCAAGAGTAGCATCAG

202001 CAAAAATGGCCAAGTAGGTAGCTTCAGGACCTTTCCTCACAGAAACATTGAAAAATCAAGCAAAACATTCAAGAAAC

202081 AACTTTGTCAGAACCCAGGA

## FIG. 6BC

Poly	SEQ ID No.	Forward-PCR Primer	SEQ ID No.	Reverse-PCR Primer	T <sub>m</sub> (°C)	SEQ ID No.	FP-SBE primer (F/R)*
IDE-US-945	485	CCACTAGGAGGGCTTGCATA	486	TTGCCACCCAGAACAACTTA	61	487	CAAAACGGGTGTCCTTAGTCGA (R)
IDE-US-122	488	CCCTCACACAGCACACACG	489	AGCTCGGAGAGGTAGCTG	61	490	CCTCGGCTGTCGGGGTC (F)
IDE-1.e5 UTR-51	491	AGCTTACCTCTCCGAGCTC	492	CATTCCGCTTACCCACACAG	66.5	493	CAGTGGCAGGGCCGGCT (F)
IDE-31.D+42	494	GTAGGGCCTGAAGCCTCATTT	495	CATGAAACACCTAGAAAGGTGC	61	496	TGAATATCCAACTTGTGTACTTA (F)
IDE-261.D+249	497	TTCCACATTTACCTAACACTG	498	TCCCTCTGGATOGCTCATTT	61	499	ATTACATACATGTCAATAAAGAGG (F)
KNSL-US-7082	500	CCTGTGCCAGACCTATAACCG	501	CTCCCACACTCAGGTGATCC	61	502	GCTCAGCTATGAAACAGACATAAT (R)
KNSL-US-6097	503	GGCATTTGGTGIGGAATAAGG	504	CAGGAGAACTGCCCTGAAACCT	57	N.A.	N.A.
KNSL-11.A-4641	505	AATGGAAGTGGAAAAAGTGG	506	AGGATCAGCATGGGAAACAT	57	N.A.	N.A.
KNSL-131.D+70	507	ACAATGCGAGAACCTCAGGA	508	CAGACAGAAATTAAACCGACTTGAA	61		

All primer sequences 5' → 3'. \*Direction of FP-SBE primer (using the PCR primers as reference); 'F' = forward, 'R' = reverse. 'N.A.' = not applicable.

FIG. 7

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 Sheet 107 of 113  
**Title: Genes and Polymorphisms on Chromosome 10**  
 Associated with Alzheimer's Disease and Other  
 Neurodegenerative Diseases  
**Serial No. To be assigned**   **Applicants: Becker *et al.***  
**Date of Filing: 6/18/03**   **Attny Dkt No. 37481-3308B**

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**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**  
**Serial No. To be assigned**   **Applicants: Becker et al.**  
**Date of Filing: 6/18/03**   **Attny Dkt No. 37481-3308B**

us-992

C

1 TGTCCCTCCAGTCCTCCAATTCCCTCATTCAGAGGTGAGAACAGAACAGAACTTCCACACCCCTCCAGAACCTCCACAGTTAGAACTGTCTACATGTTCCATTGTC

rs2227554

G

101 TTTACTTTTATTCTTGCTGCACAAATAAATGAATTGCTCATTATGAAACTTCCAAAAGACCGTAAACACTTCATTAGGAAGCACCAACAGTTATG  
 201 CCCTAGGACTTTGTTCCCACAATCCGTAAACATCATATCACGACACCTAACCCAATCCCTATCAAGCCCTGTCAAAACGACTTTAAACCAAGCTGCAA  
 301 ATTTCATGGTATCTGGCCTTGCCCTTCCCCCTGTAGACGACCATCAACAAACCCCCTACTGCCGAAAACCAATAAGCCGGTTCTTCCATCCACTG

us-600

A

401 GTGTGTTGCTGATATCTGGGACTGCCACTGAACACACGCACAGAGGGAGCCCTACAGGCAGGGGTTTTCTGTCTGTGCTTCTGGGAGAGTATGTC

us-487

T

501 TCGTACATTIGTCGGTTGATGAAGACTTCACAGCTCCATCAGCTGGGCAAGGGGCTGAGGCAGTTAGGCAAGTGGGGCCAGGGGAGAAG  
 601 TTGCAAAGAACTGATTAGAGGACCCAGGGCTCAGAGCTGGCGAGGTAGAGCTCTCTGTGCGCCTCTCCTCTGCAATTGGGACTCC

us-254

T

701 TTGCACTGGGGAGGCCCCGGCCAGGTGCATGGGAGGAAGCAGGGAATTTACAAGCCTCTCGATTCCTCAGTCCAGACCGTGTGGGTCCCTCCGC  
 801 TGAGATCCGCTTCCCCAAAATCTTGTGAGCGTTGCGGACACCCGGGCTGGCTGAGCGCTCAAGCAGGGAGGGAGCCGGGGAGA  
 901 GGGAGGGCGCCGGCCGGGGCCCTGATATAGCAGGCCGGCGGGTGCAGCACAGTGCGGAGACCCGAGCCGGAGGGTCCACC

exon01

1001 TGTCCCCGAGGCCGGCTGCCCTCCGCCAGCCACCGGTGAGTGCCGGTCTGAGATCCCCGGCCGGATGCCGGGGCCAGCTCCCGA  
 1101 GCGCTGCCCTCCCCGCCCTGGCTGCCGGCTCCCTGGCGCTGCCGGCGCTGCACGGAGTCAGGCCGGCCGGTCCCGGGTCCGGTGC

11.D+186 (us-152, rs1916341)

T

1201 ATCCAGGCTGCCGGAGTCCGGAGCCAGAGAGGAGAGAGACAGCTGGGAGCCTGGTCACCGCGGGCATCTCCCTGCGCTGCAGTCGCCCGCTGGC

2e.5'UTR-25 (rs2227579)      rs2227555

T

A

exon02

1301 TGCCTCCCGTCCCTCCGCCTCTGCCTGACTTCTCCTTGAGGCCGCGTCTAGGCCGCACCTCGCCACTGAGAGCCCTGCTGGCGC  
 start codon

rs2227580

exon02

T

rs1916340

1401 CCTGCTCTCTGCGCTCTGGTCAGCCACTCAAAGTGAGTGCGCTTGCTTGACTGATTGCCAGCCAGGACCTCTGATCAGCACCAGGGAGG

rs2227556

T

1501 AGGGGCTGCTCAGGGAGCTGGGTCTCCGGATTCCCACAGCAGGGCCACTCTCCCAGGAATGGACAGGGTGGCAGGGGGTTGAGA  
 1601 ACGGGGGTGGCATGGCACTGGCTGGCAAGGGGAGGGGCGGGACTGCCCCAGCCTGGGCATGGTAGAGTGAGCTTGGTCAATCATTTC

2i.A-114

C

1701 TCCTGGCTGGAAACCCATGGTCTCCATTTGAGAATGAACTACGAACAGGGTAGGCGGAGGAGGAGGAGGATGGGTTTGGATTGGGCCAGTT

exon 3

1801 ACCCTCACCTGGAGTCCCTGGAGCATGGACCTTGATGAAGCTCTCCCCGAATCTTCCAGGGAGACTTCAAGTTCCATGTGAGTA

3.i.D+49 (rs2227581)

A

1901 TCCACCCCTACAACAGTTGGTGCACAGACAAGTTGGGAGGCTCAGGGGACATCCCCCTCCCTGTGCAGGGTGCCACCCTTACCAT

exon 4

2001 TCCACTCCCCCTCGTACCCACCTTGTCTCCAGGCGAACTTGACTGTAATGGGAGACATTGTGTCCAAAGTACTTCTCCAACATTCA

4e.CDS+173

exon 4      A

2101 CTGGTGCAACTGCCAAGAAATTCGAGGGCAGUCACTTGAATAGGTATGGGATCTCACTGCAACTGGGAGAGAAATTGGGACAGGGGATG

rs2227557

T

2201 GGTGGGAGGCAAGGCAGGCAGGAGGTAGGGCTGGGAGGTAGGGGTAGGGGTAGGGCAAGGCATAAACACAACACACACGGCTCAGAA

**FIG. 8A**

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Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases

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2301	ACAGTGGCCACACAAATGTGAGGTGGGGTTCGAAGGAGACCCCTGTCAGTCTCTGGCAGGCTGAAACGACATCTTAAAATGTCGGTGGCAGCCGG	rs2227558	G
2401	CATGGTGGCTCACGCTTGTAAATCCCAGCATTGAGAGGTCAAGTTGAGTGGATCATTTGAGGTCAAGGAGTTCAAGACCAGCCTGGACAAACATGGTGTA	4i.D+396 (rs2227560)	A
2501	ACCTGCCTCTACTAAAAATGCAAAATCAGCCATGGCTGGCATGGTGGGATGCCATGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTGAACC	rs2227561	A
2601	TGGGAGGAGAGATCTCAGTGAGCTGAGATCACACCACTGCACCTCAACTGGCGCACAGAGCAAGACTCCATCTCAAAAAAAAAAATAAAAGTTAGTTG	exon 5	A
2701	GAATGTTCTCTCTTCTCATATTCTCTCATCCTCCTGTCCCCCTGTAGATAAGTCAAAACCTGCTATGAGGGGAATGGTCACTTTACCGAGGAAAGG	exon 5	
2801	CCAGCACTGACACCAGGGCCGGCCCTGCCATGCCATGGAACTCTGCCACTGTCCCTCAGCAAACGTACCATGCCACAGATCTGATGCTTCACTGGGG	exon 5	
2901	CCTGGGGAAACATAATTACTGAGGTGGGGCAACAAGGACAAAAGCCCTCCCTACAGCTTCCCAGAAACCTTGTACCATCCCCTCTCCAG	5i.D+105 (rs2227562)	rs2227563
3001	AGGGCTGGCCATAGCACAAGAGAAGTGCAGCTCTGGTTGAGTCTTCCCTGAGGGGAGGAGGAGGGAGGAAAGCCCTCTGGGTGGAAATGACATCCCCTATC	exon 6	A
		6e.CDS+422 (rs2228228, rs2227564)	T
3101	TTCTGTGTTGCCAGGAACCCAGACAACCGAGGGCACCTGGTCTATGTCAGGTGGCCTAAAGCCGTTGTCCAAGAGTCATGGTCATGACTGC	exon 6	
3201	GCAGATGGTAGCATCACTGACCTGCTGATGACAGTGGGGTGAAGGGACAACACTTACATGTCCTTATTCCATCACAGGAGGACTGAGGAGTGGGG	exon 7	
3301	GGTCCCCGAGAGGGATGCTTCTCCTACCTGCCCTAACATGCCCTCTGTTGTCCTCCAGGAAAAAGCCCTCCTCCAGAAGAATTAAAAT	exon 7	
3401	TTCAGTGTGCCAAAAGACTCTGAGGCCCGCTTAAGATTATGGGGAGAATTACCAACATCGAGAACCCCTGGTTCCGGCATCTACAGGAG	rs1050120	G
3501	GCACCGGGGGGCTGTCAACCTACGTGTGGAGGCAGCCTCATAGCCCTGGTGTGATCAGCGCCACACACTGCTCATGTACGGCCCTGGGTT	rs2227565	T
3601	CTCCCTTCGACTCTCTGCCCAACCCAAGCACATCCCTTCTCCCTCCAGCAAAGTGTCCGCTCATTTCTCCCTCATGCCCCGTCCATGCAG	7i.A-7 (rs2227566)	C
3701	CCCATGGCTTGGGACAAGTCGTGCTTGAGGCCTCTAGGGAGGAGAAGTGGCAGATTTCATGGACTAAGCTGTTGATGGTATCTCTTC	rs2229301, rs2227567	
		exon 8	
3801	CACAGTGATTACCCAGAAGGAGGACTACATCGCTTACCTGGTCGCTCAAGGCTTAACCTAACACGCAAGGGAGATGAAGTTGAGGTGGAAAACC	8e.CDS+822 (rs2228227, rs2227568)	
		exon 8	T
3901	TCATCC'ACACAAGGACTACAGCCGTGACACGCTTGCTACCCACACGACATTGGTGAGGGGGACACCCCGCAGACTACTGTGGCCATAATGGCTGGGAG	rs2227582	C
4001	AGTGGGACCCAGGGAGAGACTGGAGCTGAGCTGGAGCTGAGCTGCCCTGGCAGGGTGGGGGAGGACCTTGAAGCCTCGATATACTGACAAGGGAG	rs2227569	A
4101	TGGCAGGGAAAGACTCCATGAAGCTGAGGGCCTGGTCTCCCTGAGAGAGACCCCTGAATTCCCCAACAAAGTAGCCTCTTGGAGTGGAAACAGCCCT	rs2227570	A
4201	GTGGGTATATGGCTGGCTGGGAGGCCCTGTTATGAATTAGAAAAAGACACACCTTCCCTTGTGGGATGCAACCTCTGCTGTGCTAGGATATAG	AACTTGGAGAATGGAGCCTGGGATGGATTCCAGCCTAACTACCTCAGCTGGAGTTTGAGAAACGACCTGTACAGCTGTATGCAGTGGCTCTGGC	

FIG. 8B

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Title: Genes and Polymorphisms on Chromosome 10  
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Neurodegenerative Diseases

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4401 ATCCAAGCCTTTCAACACCTGGAAACAAGCCCTTGGGGCATGGGGCAGGGGAGGGTTCCAGGTGATAAGCGACCAGCAGACCTCCCTGGATGACTGAC  
4501 CTAGGGATAGGCATAGCTACTTCCTCGCACTGGAGGGACAGATGGGACCGCTAACCACTAGTGATCTCTGACCCCTGTCCTCCCCA

exon 9

4601 GCCTGCTGAAGATCCGTTCCAAGGGAGGGCAGGTGTGCCAGCCATCCCGACTATACAGACCATCTGCCTGCCCTGATGTATAACGATCCCAGTTG

exon 9

4701 GCACAAGCTGTGAGATCACTGGCTTGGAAAAGAGAATTCTAGTAAGTGACAATTGCGACTGACTTAGAAGGTCCCTGAGGAGTGTGACCTGAAAATG  
9i.D+66 (rs2227571) rs2227572 A

T 4801 AGCCCAGGGTGTGAGACTGCAGAGTTAGGGTGGGAGCAGTGAGGGTGGCAGATGGGTCCAGGGATGGATGAAGAGTGTGTTAGGGAGC  
4901 GATGGGCTGCAAAGTAAATAGATGGTAGGGCTATAGGTGGAGTAAAGGCTCAGATTGCAAGAGAATAAGGCCTCCCTGGTAGAGATACTT

exon10

5001 ATGGTTCCCTCTGGCAGACTCCAGTGGACAGATAATCTTGATGCAAACGCCCTCCCTGTTTCTCACCTAGCCGACTATCTATCCGAGCAGC rs1050122 A

5101 TGAAAATGACTGTTGTAAGCTGATTTCCACCGGGAGTGTCAAGCAGCCCCACTACTACGGCTCTGAAGTCACCCAAAATGCTGTGCTGCTGACCC rs1130957 A

A 5201 ACAGTGGAAAACAGATTCTGCCAGGTGACTTCCAAGCATTCTCTCCACCTCTTCCATATCTCCCAAGAGCTCTGGGCTTGTGTCAGCAGCAGCTAA  
5301 GGGTGTCTCTCTAGCCAAGCCCTAAGTAGCCAGAACTCAGGAGCTCAGGTCTTGAGGGTTAAACAGCTCTTATGTGTTGCGCAGACATTACCAA  
5401 AAAATCCCGACTCTGGCTAGTCAGACTGGGGCACGGAGATCTAGAAAAGAGAAAACAGTAAAGACAATGTAACCTCAGTGCCCCAGGGTGTGTTG  
5501 TGAACATAAAATGATCAGGTTCAGGAGGGAGGTGAGTGCACCTGAGGGTCAACCTGAGGGTCAAGGAGGGAGGTTAAAGGAAATGTGACTTGATAGGCATTTC  
5601 AAGAGGCAGAGGGAAAGAAGGAAGGTGTTCACTTGAAAGATAACAAACTGAGAAGGGCTGGCATATTCCGGTGGGAGGAGAACTAGGGCTGGGA rs2227573 G

5701 GTGTGGATGGAATAGTGGCAGATGACAGGGTTAAAGCCAAGCAGGGGATTTAACTTGATGTGGTAGAAAATGGGCTGGCTCAGGCACAGTGGCT  
5801 CATGCCCTGAAATCCAGCACTTGGAGGGCAGGTGGATGATCTGAGGCCAGGAGTTGAGACGCCCTGCCCAATGGTGAACCCCTGTGCT  
5901 ACTAAAAATGCAAAAAAAATTAGCCAGGTGTTGCTGCCCTGCTAATCCAGCTAATCAGGAGGCTGAGACATGGGAATCGCTGAGCACAGGAGG  
6001 CAAGTTGCACTGAGACTCACGTATTGCAAGCCAGCTGGCGACAGCAGGAGATTCTGCTCCCTCCCCGAAAAAAAGAAAAGAAAATGGGAACTC  
6101 GCTAAAGGACTTGACTGGGAAACTTCCCTCTCTGGTATGGTTGGTGTGAGAAATCCCTCCTACTTCTAGGGCTCATCTTTGTAT exon 11

6201 CTTGGCGTCACAGGGAGACTCAGGGGACCCCTCGTCTGTTCCCTCCAAGGGCATGACTTGACTGGAATTGTGAGCTGGGCCGTGGATGTGCCCT exon 11

6301 GAAGGACAAGCCAGCGTCTACAGAGACTCTACACTTCTAACCTGGATCCGAGTCACACCAAGGAAGAGAATGGCCTGGCCCTTGAGGGTCCCC stop codon

6401 GGGAGGAAACGGGACCCACCGCTTCCTGCTGGTTGTCAATTGGCAGTAGAGTCATCTCCATCAGCTGTAAGAAGAGACTGGGAAGATAGGCCTCTGCA rs1050124 11e.3'UTR+141 (rs4065) G C exon 11

6501 CAGATGGATTGCTGTGTCACCCACCCAGGTGAACGACAATAGCTTACCCCTCAGGCATAGGCCCTGGCTGGCTGCCAGACCCCTGGCCAGGAT exon 11

6601 GGAGGGTGGCTCTGACTCAACATGTTACTGACCACTGCTTTCTGGACTGAAGCCTGCAGGAGTTAAAAGGGCAGGGCATCTGTGCACT exon 11

6701 GGGTGAAGGGAGAGCCAGCTCCCCGACGGTGGCATTTGTGAGGGCCATGGTTGAGAAATGAATAATTCCAATTAGGAAAGTGTAAACAGCTGAGGTCT exon 11

6801 CTTGAGGGAGCTTAGCCAATGTGGGAGCAGCGGTTGGGAGCAGAGACACTAACGACTTCAGGGCAGGGCTGTGATATTCCATGAATGTATCAGGAAAT rs1804874 T exon 11

FIG. 8C

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**Title: Genes and Polymorphisms on Chromosome 10  
Associated with Alzheimer's Disease and Other  
Neurodegenerative Diseases**

**Serial No. To be assigned**   **Applicants:** Becker *et al.*  
**Date of Filing:** 6/18/03   **Attny Dkt No:** 37481-3308B

6901	ATATATGT <u>G</u> TGTGATGTTGCACACTTGTGTGGGCTGTGAGTGTGAGTAAGAGCTGGTGTCTGATTGTTAAGTCTAAATATTCCTTAAAC
	exon 11
7001	TGTGTGGACTGTGATGCCACACAGAGTGCTTCTGGAGAGGTTATAGGTCACTCCTGGGGCTCTGGTCCCCACGTGACAGTGCCTGGGAATGTA
	exon 11
7101	TTATTCTGCAGCATGACCTGTGACCAGCAGCACTGTCTCAGTTCACTTACATAGATGCCCTTCTGGCCAGTTATCCCTCCTTAGCCTAGTTCA
	rs2227574
	<b>Del</b>
	exon 11
7201	CCAATCCTCACTGGGTGGGTGAGGACCACTCC <u>T</u> GTACACTGAATTTTATTTCACTA <del>TTTTTATTTTATTTT</del> GTAA <del>TTTAA</del> AAAGTGATCA
	exon 11
7301	ATAAAATGTGATTTTCTGTGACAAATCTCCGGTCTGTATGGAGGAGCTGGAGTACATAAAAGGAGAAAATAACAAAGGGACTGCACCT
7401	AGAGTTCTTATGGGACTGCATCTCTGGACTTAATGGAGCTTGGGAGGTAGAGGTTAGGGAGAGCTGTAGGGCAGGGCACACAGCACTTAATGTATAC
7501	AAAGTTCCCAAACACACA <u>T</u> CCCATGGCTGTAAAGTGTAGGTCAAGGGCTTAGGTCACTGCCCCTAACTGTGCGCTTGTGCACTGCA
7601	CATCTGTACAGCTGTACATGGTCTCTCTTAGGGTTAACACTCCACAAACAGTCTTCACACTGTGCCCCAACAAATCTTGAGCTGACCTCAACAGAAAG
7701	GAACACCTGTGGCCAGGTGTAGTGGCTCATGCCGTAACTCTAACATTGAGAGGCTGAGGTGGGAGAATCGCTTGAGGCCAGGAGTTGAGACCAGCC
	rs2227584
	<b>T</b>
7801	TGGGAAACTTAGTGAGACCCGTCTCTGCAAAAAAATAAAAAAATTAG <u>CC</u> AGGTGTGCGTAGCACATGTCTGAGTCTAGCTACTTGGGAGGCTGAGGCAG
	rs2227575
	<b>C</b>
7901	GAGGAT <u>C</u> ATAAGCCAAGGAGTCAGTTACAGTCAGCTGATTGTGCCACTGCACTCCAGCCTAGGTGACAGAGCAAGACCTGTCTCAAAAAAAAAAA
8001	AGAAGAAGAAGAAGAAGAAC <u>T</u> GTAAGTGA <del>AA</del> ATTGCTGGCCAGGCTCAGTGGCTCACGCTGAATTCAGCACTTGGGAAGCCGAGGTGTGGAT
8101	CACTTGAGGTGAGGACTTGTAGACCAAGCCTGACCAACATAGTGAACCCCATCTACTAA <del>AA</del> ATACAAAAAATTAGCCGGTGTGGGGTGGCTGCT
8201	GTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCTTGAAACCCGGGAGGCAGGGTTGAGTGCAGCCGAGATCGCACCACGTGCA <u>T</u> CCAGCCTGG
8301	GGCAGAGGAGAAGA

FIG. 8D

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**Title: Genes and Polymorphisms on Chromosome 10**  
**Associated with Alzheimer's Disease and Other**  
**Neurodegenerative Diseases**  
**Serial No. To be assigned Applicants: Becker *et al.***  
**Date of Filing: 6/18/03 Attny Dkt No. 37481-3308B**

rs2227555

	start codon
1	GTCCCCGCAGCGCCGTCGCCGCCCTCTGCCGCAGGCCACCGAGGCCGCCGCGCTAGCGCCCGACCTCGCCACCATGAGAGCCCTGCTGGCGCGCCTG rs2227580
101	CTTCTCTGCGTCTGGTCGTGAGCGACTCAAAGGCAGCAATGAACCTCATCAAGTTCCATCGAACTGTGACTGTCTAAATGGAGGAACATGTGTGCTCA 4e.cds+173
201	ACAAGTACTTCTCAACAACTACTGGTCACTGCCAAAGAAATTGGAGGGCAGCAGTGAAATAGATAAGTCAAAAACCTGCTATGAGGGGAATG 301
	TCACCTTACCGAGGAAAGGCCAGCACTGACACCATGGGCCGCCCTGCGCTGCCCTGGAACCTGCCCAGTGTCTCAGCAAACGTACCATGCCAACAGA 6e.CDS+422
401	TCTGATGCTCTTCAGCTGGCTGGGAAACATAATTACTGCAGGAACCCAGACAACCGGAGGCAGCCCTGGTGTATGTGCAGGTGGGCCCTAAAGCCGC 501
601	TTGCTCAAGAGTGATGGTCATGACTGCGCAGATGAAAAAAAGCCCTCCTCTCCAGAAGAATTAAAATTCAGTGTGGCCAAAGACTCTGAGGCC rs1050120
	CCGCTTAAGATTATTGGGGAGAATTACCCACATCGAGAACAGCCCTGGCTGGCGCCATCTACAGGAGGCACCGGGGGCTCTGTCACCTACAGTG rs2229301 rs2227567
701	TGTGGAGGCAGCCTCATGCCCTTGCTGGGTGATCAGGCCACACACTGCTTCATTGATTACCCAAAGAAGGAGGACTACATCGTCTACCTGGTCGCT 8e.cds+822
801	CAAGGCTTAACCTCAACACGCAAGGGAGATGAAGTTGAGGTGAAAACCTCATCCTACACAAGGACTACAGCGCTGACACGCTTGCTCACCAACGA 901
1001	CATTGCCATTGCTGAAGATCGGTTCAAGGAGGGCAGGTGCGCAGCCATCCCGACTATACAGACATCTGCTGAGTATAACGATCCCGAG rs1050122 rs1130957
1101	TTTGGCAACAGCTGTGAGATCACTGGTTTGGAAAAGAGAAATTCTACCGACTATCTCTATCCGGAGCAGCTGAAATGACTGTGTGAAGCTGATTCCC 1201
	ACCGGGAGTGTCAAGCAGCCCCACTACTACGGCTCTGAAGTCACCAACCAAAATGCTATGTGCTGCTGACCCCCAATGGAAAACAGATTCTGCCAGGGAGA CTCAGGGGACCCCTCGTGTCCCTCCAAGGCCATGACTTGAATTGTGAGCTGGCCCTGAGGACAAGCCAGCGTC stop codon
1301	TACACGAGAGTCTCACACTTCTTACCCGGATCCGAGTCACACCAAGGAAGAGAAATGCCCTGGCCCTCTGAGGGTCCCCAGGGAGGAACGGGACAC rs1050124
1401	CCGCTTCTTGCTGGTTGTCATTGGTAGACTAGACTCATCTCCATCAGCTGTAAGAAGAGACTGGAAACATAGGCTCTGCACAGATGGATTGCTGTGG 11e.3utr+141
1501	CACCAACAGGGTGAACGACAATAGCTTACCCCTACGGATAGGCCCTGGGTGCTGCTGCCAGCCAGCCCCCTGCCCAGGATGGAGGGTGCTCTGACTCAA 1601
1701	CATGTTACTGACCAAGCAACTTGTCTTTCTGGACTGAAGCCTGCAGGAGTTAAAAGGGCAGGGCATCTCTCTGTCATGGCTGAAGGGAGGCCAGC rs1804874
1801	TCCCCGACCGGGGGCATTTGAGGCCATGGTGAAGAAATGAATAATTCCCCTAGGAAGTGTAAAGCAGTGGCTCTGAGGAGCTTGGAGGAGCTTGG 1901
2001	AATGTGGGAGCAGGGTTGGGAGCAGAGACACTAACGACTTCAGGGCAGGGCTCTGATATTCCATGAATGTATCAGGAATATATATGTGTGTATG 2101
2201	TTTGACACTTGTGTGGCTGAGGTGAAGTGTGAAGCTGGTCTGATTTGTTAAGTCTAAATATTCTAAACTGTGTGGACTGTGAT 2301
	CCACACAGGTGGCTTTCTGGAGAGGTTAGGTCACTCCCTGGGCCCTTGGGCCCCACGTGACACTGCCCTGGGAATGACTTATTCTGAGCATG ACCTGTGACCAAGCACTGTCAGTTTCACTTACATAGATGCCCTTCTGGCCAGTTATCCCCTTTAGCCTAGTCACTCCATCCTACTGGG rs2227574
	TGGGGTGAGGACCACCTTACACTGAATATTATTTCACTATTTTATTATTTGTAATTAAATAAAACTGATCAATAAAATGTGATTTT CTGA

**FIG. 9**

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**Title: Genes and Polymorphisms on Chromosome 10  
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Neurodegenerative Diseases**

Serial No. To be assigned      Applicants: Becker *et al.*  
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1 AGCAATCAGC ATGACAGCCT CCAGCCAAGT AATCTGGAGT CATGAGAGCT  
TCGTTAGTCG TACTGTCGGA GGTCGGTTCA TTAGACCTCA GTACTCTCGA

PLAU\_us-1920      PLAU\_us-1907  
(rs2459449)

```

51 GCTAGGGGAG CAACATGAAT CATGACCGTC CCTGGGAATT TCCTGATAAC
CGATCCCCTC GTTGTACTTA GTACTGCCAG GGACCCCTAA AGGACTATTG
101 TAACCTGGGA GTTCCGGGGT AAGTCCTCAG GCTGCAGCAT CTCTGTTTAT
ATTGGACCCCT CAAAGCCCCA TTCAGGAGTC CGACGTCGTA GAGACAAATA
151 GTTCTGGTCA CGTTTATTTA CAATTAATGG GTTCTCAAAT CCAAACAAAAA
CAAGACCAAGT GCAAATAATAAT GTTAATTAAC CAAGAGTTTA GGTTTGTTTT
201 CTGACCACAG TCTCTAGAG GAAGTAGCAA GGTGGTCTCT GAAGCCTATA
GACTGGTGTCA AGAACAGATCTC CTTCATCGTT CCAACCGAGA CTTCGGATAT

```

PLAU\_us-1745  
(rs2227551)

251	T	CCATCGCTGA	CTCAGTCTGT	CCCCCTGGAAG	GCTGGCAGCT	CAGCAAGCAC
		CGTAGCGACT	GAGTCAGACA	GGGGACCTTC	CGACCCTGCGA	GTCGTTCTGTG
301		AGAAAGTCTCT	CCAGAAAGACA	GTGGGTCACC	TGCCTCCCAA	AAGCTGAAAG
		TCTTCAGAGA	GGTCTTCTGT	CACCCAGTGG	ACGGAGGCTT	TTCGACTTTTC

PLAU\_us-1616  
(rs2227552)

			T		
351	GCTAACTTGT	ACTTTCCCCA	GCAGGCAGCT	GGCA <u>CCCTGA</u>	GCCCTCGGCT
	CGATTGAAACA	TGAAAGGGT	CGTCCGTCGA	CCGTGGGACT	CGGGAGCCGA
401	GGGGCAGAGC	AAAGGAGCCT	TCCTCCTTCC	TACCTTCCTG	GCACTCTCCC
	CCCCGTCTCG	TTTCCTCGGA	AGGAGGAAGG	ATGGAAGGAC	CGTGAGAGGG
451	TGCCCTTCCTT	CTGTCACTCT	CAGGTGGACC	CAGACCCAAG	GTCCAGATTT
	ACCGAAAGGAA	GACAGTGAGA	GTCCACCTGG	GTCTGGGTT	CAGGCTCTAAA
501	GCAAGGCAGG	AAAATGCTGC	AGGCCTAGGG	TGGGAAAGGG	CCCAAAGCCG
	CGTTCCGTCC	TTTTACGACG	TCCGGATCCG	ACCCCTTCCC	GGGTTTCGCG
551	CTAGTGGATT	GCTGGGACTC	AGCCTCCTCC	TTCCCCACTAA	GAGAGCGACT
	GATCACCTAA	CGACCCCTGAG	TCGGGAGGAGG	AAGGGTGATT	CTCTCGCTCA
601	CCTACTGGGT	TCAAAATGAC	CCCAAGCCCT	GTTCCTGAC	ACTAGGGGAA
	GGATGACCCA	AGTTTTACTG	GGGTTCGGGA	CCAAGGACTG	TGATCCCCCT
651	AGAGATGGGG	GTGACAGAAT	CACAGAACAT	CTGCTATGTT	CCTCCAAGTG
	TCTCTACCCCC	CACTGTCCTA	GTGTCCTAGG	GACGATACAA	GGAGGTTTCAC

PLAU\_us-1287  
(del)

701	TGCCCGAGAGA	TGC <b>G</b> TGTGTG	TGTGTGTGTG	TATAACACAA	TGTCTGCTTA
	ACGGGTCTCT	ACGCACACAC	ACACACACAC	ATATGTGTTT	ACAGACGAAT
751	TCCTCAGGCA	GGAAGGGTGG	ATGCAGTCAT	TTACACATGG	TCTGTGTTTC
	ACGAGTCCGT	CCTTCCCACC	TACGTCAGTA	AATGTCGTAAC	AGACAAAAAG
801	TGGAGGACAA	TTTTATTGTA	AAAACATTG	TTTCTATCTG	AATAAGATAAA
	ACCTCCTGTT	AAAATAAAACT	ATTTGTTAAC	AAAGATAGAC	TTATCTTATT
851	ACAAGGCTCT	ATGATGAAGT	AAAACACTAA	ATACACATGC	ATTTAAAAAAAT
	TGTTCCGAGA	TACTACTTCA	TTTGTTGATT	TATGTCGTAAC	TAATTGTTTTA
901	GCATAATTAT	CTTTTTGGAA	TGGGCTATAC	AGAGATGTGC	TTTTTAAAT
	CGTTAAATAA	AAAAAAACCTT	ACCCGATATG	TCTCTACACG	AAAAAATTTTA
951	GTAAAGAGTG	TAAAAGGACAA	AACAGTGAAGA	AATAAATCTT	CCTCTTATT
	CAATTCTCAC	ATTTTCTGTG	TTGTCACTTT	TTATTTAGAA	GGAGAATAAA

**FIG. 10**